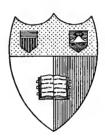
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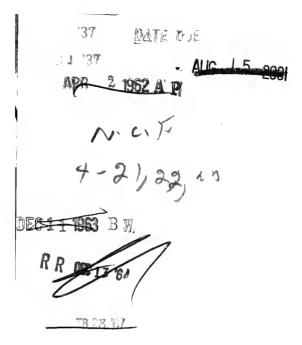
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HARBOR OF PAGO PAGO, SAMOA.

AMERICAN SAMOA

A GENERAL REPORT BY THE GOVERNOR



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American Samoa. Navel governor, 1910-1913 (William M. Crose)

LETTER OF TRANSMITTAL.

GOVERNMENT HOUSE, PAGO PAGO, American Samoa, May 1, 1921.

From: Government Commandant. To: The Secretary of the Navy. Via: The Chief of Naval Operations.

Subject: Report for information of the general public on American Samoa.

1. In compliance with the letter of the Chief of Naval Operations of February 3, 1921, there is submitted herewith a general report on conditions in American Samoa.

2. This publication is a revision and enlargement of the report made by the Governor Commandant, Capt. W. M. Crose, 1912.

W. Evans, Captain, U. S. Navy.

AMERICAN SAMOA.

GEOGRAPHICAL LOCATION.

The Samoan group of islands extends in latitude from 13° 26′ south to 14° 22′ south, and in longitude from 169° 29′ west to 172° 48′ west.

American Samoa comprises the "Island of Tutuila and all other islands of the Samoan group east of longitude 171° west of Greenwich"

The islands of American Samoa from east to west are: Rose Island, Tau, Olosega, Ofu, Tutuila, and Aunuu. The islands of Tau, Olosega, and Ofu are generally known as "the Manua group," and the island of Aunuu is embraced in the name "Tutuila." Rose Island is a coral atoll, uninhabited, and of practically no value.

The islands of western Samoa are: Upolu, Savaii, and the small and rather insignificant islands Apolina and Manono, lying between the other two islands. Upolu is the most important island of western

Samoa, although Savaii is the largest.

The island of Upolu has always been the most important island of the group, politically and commercially. The Samoan kings lived there, and the most important wars were waged on that island, although the other islands were also often the scene of hostilities. It was customary for Tutuila and Savaii to send warriors to Upolu to take part in the general wars. From very early days the Manua group held aloof from the other islands and did not take part in their politics or wars. It had its own king, Tuimanua, and an independent government.

The location of Tutuila will be better understood from the follow-

ing table of distances:

Distance from Pago Pago to—	Miles.
San Francisco	4.160
San Diego	4, 190
Panama	4,900
Punta Arenas	5, 197
Hongkong	4,868
Yokohama	4.072
Honolulu	2.268
Auckland, New Zealand	1.536
Sydney, New South Wales	2,370
Suva, Fiji	612
Apia, western Samoa	77

HISTORICAL RETROSPECT.

Very little is known of the early history of the Samoan Islands. The earliest notice we have of them is the visit of the Dutch "Three Ship Expedition," under Roggewein, in 1722. The French explorers followed—Bougainville in 1768 and La Perouse in 1787. During the visit of the latter at the small village of Asu, in Tutuila, a boat's crew of the Frenchmen and M. de Langle, one of the officers, were massacred while on shore.

In 1791 the British war vessel Pandora visited the islands.

In 1830 the London Missionary Society established a mission in one of the Samoan Islands, and followed that up by extensive opera-

tions in all the islands.

The United States exploring expedition, under the command of Lieut. Charles Wilkes, United States Navy, made the first scientific investigations in the islands, in 1839. This expedition, composed of six vessels, was equipped for the particular purpose of surveying and exploring the unfrequented islands of the South Seas. A staff of competent civilian scientists was on board, and the ships (all naval vessels) were prepared for accurate survey work. The surveys then made of the Samoan Islands, though necessarily hurried ones, were for many years the basis of our charts. The latest survey of the islands of American Samoa was completed in 1920, and charts from this survey will shortly be issued.

As early as 1850 England, Germany, and the United States were represented by commercial agents in Apia, Samoa. During the next 20 years Germans and Englishmen were more forward than the Americans in establishing trading stations, acquiring land, and developing intimate relations with the natives. Americans took very

little interest in Samoa at this time.

In 1872 Commander Richard W. Meade, United States Navy, commanding the U. S. S. Narragansett, visited Pago Pago, and made an agreement with Mauga, the highest chief of Tutuila, in which Mauga expressed his desire for the friendship and protection of the United States, and granted to the United States the exclusive privilege of establishing a naval station in Pago Pago Harbor. Commander Meade made this treaty on his own responsibility.

In May, 1872, President Grant communicated this agreement to the Senate, saying that he would not hesitate to recommend its approval, but for the protection to which it seemed to pledge the United States, which was not in accord with the foreign policy of our

Government. The Senate took no action on the agreement.

Naval officers had long recognized the strategic value of Pago Pago, with its magnificent harbor and its situation at the crossroads of the Pacific trade routes from North America to Australia and from Panama and South America to the Orient, and that a coaling station at this point would be of inestimable value to the United States.

In 1873, in response to a public demand for more information about the Samoan Islands, the Department of State sent Col. A. B. Steinberger as special agent to the Samoan Islands, to report upon their condition, which report was submitted in the latter part of the year

1873 and transmitted to Congress in April, 1874.

Steinberger was sent back to Samoa a second time, carrying a letter from the President and some presents to the chiefs of Samoa, his official relations with the United States being severed when the letter and the presents were delivered. Steinberger formed a government for Samoa, of which he became premier (practically "dictator"). It was said, and probably with cause, that Steinberger had promised

the Samoans the protection of the United States. The State Department, in answer to a resolution of the House of Representatives, March 28, 1876, transmitted all the correspondence in Steinberger's case to Congress, and repudiated any agreement which Steinberger may have made with Samoa as without authority.

In 1876 Steinberger's government fell into difficulties with the foreign Governments at Apia, particularly that of England, and he was deported in the English gunboat *Barracouta*—Capt. Stevens commanding—in an arbitrary and illegal manner. Capt. Stevens

resigned his commission after an investigation into his conduct.

The government of Steinberger was the best the Samoans had ever

had. It collapsed after his deportation.

In 1877 the chiefs of all Samoa sent Mamea as ambassador to the United States to conclude a treaty, hoping at least to obtain the protection of the United States. He was unsuccessful in this particular object, as the people of the United States were not ready to assume such serious obligations.

In January, 1878, Mamea concluded a treaty of friendship and commerce at Washington, the first treaty ever entered into by Samoa, and which contained formal definition of the relations of the United

States to the Samoan Group:

Naval vessels of the United States shall have the privilege of entering and using the port of Pago Pago and establishing therein and on the shores thereof a station for coal and other naval supplies for their naval and commercial marine, and the Samoan Government will hereafter neither exercise nor authorize any jurisdiction within said port adverse to such rights of the United States or restrictive thereof.

The fifth article provided that should any difference arise between Samoa and another Government at peace with the United States, "the Government of the latter will employ its good offices for the purpose of adjusting those differences upon a satisfactory and solid foundation."

The United States here made the first departure from its policy of avoiding entanglements with foreign Governments, which entanglements, as a matter of fact, came very quickly. The treaty was ratified by both the United States and Samoa during the year 1878.

In 1879 treaties were concluded between Germany and Samoa and between England and Samoa, by which Germany was granted a coaling station at Saluafata, Upolu, and England was granted one at a place to be later determined. The treaties were otherwise much

similar to the one concluded by the United States.

In 1885 Dr. Stuebul, the German consul general, took possession of all the land within the municipality of Apia, in the name of his Government, which action was the cause of much disorder. In conformity with our treaty with Samoa, "to employ its good offices," proposals were made to Germany and England for them to authorize their diplomatic representatives in Washington to consult with the Secretary of State with a view to the establishment of order. A conference was held at Washington in June and July, 1887, which was adjourned in July until autumn in order to allow the foreign ministers to consult with their home Governments, it being understood that in the meantime the status quo would be preserved. Almost immediately after the adjournment the German Government, through its representatives in Samoa, declared war on the Samoan King, Malietoa, who was dethroned and deported; Tamasese was de-

clared to be King, with Brandeis, a German, as adviser. This action of Germany, declared to be a lack of consideration of the United

States, aroused adverse feeling in our country.

In September, 1888, many of the Samoan people revolted against Tamasese and chose Mataafa as King, and a war ensued. The Germans in Samoa deported Tamasese. The feeling in the United States against Germany was accentuated. Five hundred thousand dollars were appropriated by Congress for the protection of the interests of the United States. The American squadron in Samoa was reenforced.

On March 15, 1889, there were gathered in the harbor of Apia the American ships *Trenton* (the flagship of Rear Admiral Kimberly), *Vandalia*, and *Nipsic*; the British ship *Calliope*; the German ships *Adler*, *Eber*, and *Olga*. A hurricane developed on that day, and by the evening of March 16 only one of those seven vessels remained afloat—the *Calliope*, which by her superior power and by magnificent seamanship was enabled to put to sea in the face of the hurricane. The frightful disaster did much to bring about a settlement of Samoan affairs.

On June 14, 1889, the Berlin general act was concluded, and was later agreed to by Samoa. This act, after declaring the independence and neutrality of the Samoan Islands, and stipulating for the provisional recognition of Malietoa Laupepa as King, provided for the establishment of a government. The principal feature of the Government was a supreme court, the chief justice to be appointed by the three powers, or, failing agreement, by the King of Norway and Sweden. A municipal government for Apia was provided, and also a land commission, to settle the very troublesome questions of titles to lands.

From the Samoan standpoint the new Government was not a success from the start, caused in some degree by the dilatory methods of the first chief justice. The strained relations between the German residents and the British and American residents of Upolu continued. The Mataafa party was never reconciled to the recognition of Malietoa Laupepa as King. War broke out in 1893, Mataafa rebelling against the authority of King Malietoa, and many lives were sacrificed. Mataafa, with 12 chiefs, was deported to the German Island of Jaluit, the three powers concurring and sharing in the expense of maintenance. The Mataafa followers still maintained an organization, however, and were ready to rebel again when opportunity offered.

In 1898 King Malietoa died. By agreement among the powers, made before the death of Malietoa, Mataafa was brought back to Samoa very shortly after Malietoa's death occurred, he having signed an agreement to abide by the law of Samoa and not to engage in hostilities against the Government. The Berlin general act had made provision that the successor to the King should be selected by the Samoans according to their customs, and, failing a selection, that the chief justice of Samoa should decide as to which claimant should be King, this decision to be final. The method of selecting a King was not set forth. The Samoans could not come to any agreement as to the successor of Malietoa; there was no provision in Samoan customs that the majority should rule. The followers of Malietoa Tanu and of Mataafa, the rival claimant, were armed and ready for war.

After some months of this uncertainty, the decision was referred to the chief justice, who decided in favor of Malietoa Tanu. Mataafa proclaimed himself King, and opened hostilities, abetted more or less openly by the Germans, who refused to recognize Malietoa. Mataafa gained the ascendancy and the consuls of the three powers recognized a temporary provisional government under Mataafa. This step was taken by the consuls to avoid further bloodshed.

The United States flagship *Philadelphia*, Rear Admiral Albert Kautz in command, arrived in Apia in March, 1899. At a conference between officers commanding the naval vessels of the three powers and the consuls it was decided that Mataafa must withdraw from Apia and cease hostilities, and that Malietoa Tanu was legally the King. The German consul general and the officer commanding the German cruiser *Falke* dissented, and openly opposed by proclamation the orders issued by Admiral Kautz.

In the hostilities which ensued Mataafa's forces and villages were

shelled by the American and British men-of-war.

On April 1, 1899, a force of marines and sailors from those vessels was ambushed near Apia while attempting to destroy some native villages, and two American officers, one British officer, two American sailors, and one British sailor were killed and five men were wounded. Other casualties among the combined forces took place, sentinels

being killed by the natives.

When this news reached home the three powers decided to send a commission of three men, one from each power, to Samoa to take over the Government temporarily and restore peace. The American commissioner was Mr. Bartlett Tripp. The commission arrived in Apia on May 13, 1899, and immediately set about restoring order. The hostile Samoan armies laid down their arms, the commission agreeing to purchase all guns turned in. Both Malietoa Tanu and Mataafa agreed to abide by the decisions of the commission. At the request of the commission Malietoa resigned the kingship, and it was decided that there should be no King until the powers made some further agreement. A successful provisional government was formed and peace was restored.

The three powers then decided that the only way to govern the Samoan Islands was to divide them among the powers—England, Germany, and the United States. England and Germany made a separate agreement, by which England surrendered her claim to one of the islands upon Germany's surrendering to England certain islands in the Solomon group. A convention was made between Germany, the United States, and Great Britain, and was ratified by

the Senate February 13, 1900. It provides as follows:

ARTICLE I. The general act concluded and signed by the aforesaid powers at Berlin on the 14th day of June, A. D 1889, and all previous treaties, conventions, and agreements relating to Samoa are annulled.

ART. II. Germany renounces in favor of the United States of America all her rights and claims over and in respect to the island of Tutuila and all other

islands of the Samoan group east of longitude 171° west of Greenwich.

Great Britain in like manner renounces in favor of the United States of America all her rights and claims over and in respect to the island of Tutuila and all other islands of the Samoan group east of longitude 171° west of Greenwich.

Reciprocally, the United States of America renounce in favor of Germany all their rights and claims over and in respect to the islands of Upolu and Savail and all other islands of the Samoan group west of longitude 171° west of Greenwich

ART. III. It is understood and agreed that each of the three signatory powers shall continue to enjoy, in respect to their commerce and commercial vessels, in all the islands of the Samoan group privileges and conditions equal to those enjoyed by the sovereign power, in all ports which may be open to the commerce of either of them.

ART. IV. The present convention shall be ratified as soon as possible, and

shall come into force immediately after the exchange of ratifications.

On February 19, 1900, an Executive order was signed by the President, reading as follows:

The island of Tutuila, of the Samoan group, and all other islands of the group east of longitude 171° west of Greenwich, are hereby placed under the control of the Department of the Navy for a naval station.

The Secretary of the Navy shall take such steps as are necessary to establish the authority of the United States and to give to the islands the necessary

protection.

The Secretary of the Navy, on the same date, issued an order as follows:

The island of Tutuila, of the Samoan group, and all other islands of the group east of longitude 171° west of Greenwich, are hereby established into a naval station, to be known as the Naval Station, Tutuila, and to be under the command of a commandant.

POLITICAL STATUS.

B. F. Tilley, commander, United States Navy, was the first commandant. His orders contained the following clause:

While your position as commandant will invest you with authority over the islands in the group embraced within the limits of the station, you will at all times exercise care to conciliate and cultivate friendly relatious with the natives.

This same clause occurs in the orders of the successive commandants

to the present day.

Beginning with 1905, the commandant, upon nomination by the Secretary of the Navy, has been given by the President of the United States a commission as governor, and his authority in civil matters is derived therefrom.

The islands have been known officially as "Naval Station, Tutuila," but the Navy Department has now adopted the name "American

Samoa," by which name they are now called.

The first commandant drew up a form of government by "Regulations." Regulation No. 5, of May 1, 1900, is "A declaration concerning the form of government for the United States Naval Station, Tutuila." This regulation describes the form of government and judicial administration and is still in force with amendments.

The Navy Department does not give its approval of the regulations

issued by the governor.

It will be noticed that although England and Germany renounced all claim to the islands of American Samoa, the United States didnot necessarily thereby acquire sovereignty over those islands, for their independence had hitherto been recongized by the three powers. However, on April 17, 1900, the chiefs of Tutuila made a formal cession of their island to the United States, and on July 15, 1904, the chiefs of Manua recognized the authority of the United States over

their islands. These cessions were never acted upon by Congress, but they were accepted by the President, letters and presents being sent in acknowledgment.

In 1903 full information as to the conditions in American Samoa was furnished to Congress, but that body failed to legislate for the

islands and has never defined their political status.

By decisions of the various departments rendered from time to time the following points as to the status of American Samoa are established:

It is not foreign but domestic territory.

Customs duties may be collected in the United States on goods shipped from American Samoa unless they are certified to be products of the islands or goods on which duty has been collected in those islands.

The same customs duties may be collected on importations from the United States as on importations from other countries, in conformity with the con-

vention, Article III.

Samoans are not "citizens of the United States," but owe allegiance to the lag.

Vessels owned by Samoans are not entitled to registry but are entitled to

fly the flag.

"Neither the Constitution nor the laws of the United States have been extended to them, and the only administrative authority existing in them is that derived mediately or immediately from the President as Commander in Chief of the Army and Navy of the United States." (Opinions of the Attorney General, vol. 25.)

PHYSICAL CHARACTERISTICS.

All of the Samoan Islands are of volcanic formation, having been probably thrown up from the ocean bed by some mighty convulsion

of nature. All are mountainous.

The Island of Tutuila, of irregular shape, is about 18 miles long and from 5 to 6 miles wide in the widest part. It is estimated that it contains 40.2 square miles of land. A mountain ridge extends nearly the whole length of the island, with spurs on each side, and with indentations of deep valleys. The aspect is extremely rugged, but more so in the eastern than in the western part. There is very little level land except at the foot of the mountains along the coast, and with the exception of a broad fertile plain in the southwestern part of the island. On this plain are several villages of importance and extensive cultivations of coconut trees.

The north side is bold and precipitous, with a few level spaces here and there, barely large enough to support a village. The mountains are wooded to the top, the whole island being a mass of tropical

vegetation, extremely beautiful to the eye of the traveler.

Pago Pago Bay, the safest and best harbor in the South Seas, has its entrance to the southward and nearly cuts the island in twain. It is formed in the crater of an immense volcano, the south side broken away and open to the sea. About a mile from the harbor mouth it turns sharply to the westward, giving the harbor the appearance of the foot of a stocking, with the United States naval station situated on the instep, facing north and entirely sheltered from seaward. The sea can not be seen from ships at anchor inside the harbor, the ships lying quietly in smooth water during the heaviest gales. High mountains encompass the harbor, villages nestling comfortably on the narrow strip of level land along the shore. Pago Pago, the most

important village of the island, is at the extreme toe of the stocking, to follow the simile. Fagatogo lies behind the naval station. Aua, Lepua, and other small villages are on the north shore. The harbor is well buoyed and lighted and may be safely entered by the largest vessels by night or day.

Other harbors of importance, with villages of the same names, are Leone and Fagaitua on the south side and Fagasa and Masefau on the north side; but, with the exception of Leone, these harbors are

of little value.

In the center of the island of Tutuila rises Matafao Peak, 2,141 feet in height—sharp, narrow, and symmetrical. Mount Alava, 1,608 feet, and Mount Pioa, 1,717 feet in height, mark the mountain chain to the northward and eastward of Pago Pago Bay. Mount Tuaolo (or Olotele), 1,639 feet, is the highest mountain of the western part of the island.

Tau, of the Manua Group, 60 miles east of Tutuila, 14 square miles in area, is cone shaped, the center being about 2,000 feet in height. Its southern and eastern coasts rise abruptly from the sea. The principal villages, Luma and Suifaga, are on the west coast, on an open roadstead. Near by is the village of Faleasao, on a small bay, giving an excellent anchorage during the southeast trade winds.

Olosega is approximately $3\frac{1}{2}$ miles from Tau, to the westward. There are two small villages on this island. Of u is separated from Olosega by a narrow passage, easily forded. It also has two villages. Both of these islands are rugged and mountainous, but there is enough land to support the small population. The combined area of the two islands is 3.7 square miles.

CLIMATE.

The climate is tropical. The southeast winds blow strongly from May until November; during the other months of the year the winds are variable, frequently from the west and northwest. Severe gales and occasional hurricanes have been experienced. In March, 1889, when the ships of the United States, Great Britain, and Germany were gathered in the harbor at Apia, six of the seven vessels were driven on the reef by a violent whirlwind, where they met complete

destruction, entailing a great loss of life.

In January, 1915, the islands of the Manua Group were visited by the severest storm in their history. The loss of life was small, but there was great destruction of property. The churches, schoolhouses, stores, and most of the huts of the natives were blown down. The greater part of the coconut and breadfruit trees and banana and taro plants were destroyed. Food became very scarce, and Congress appropriated \$10,000 and the Red Cross Society \$2,000 for the relief of the people of these islands. In addition to this, the natives of Tutuila gave large quantities of taro and other foodstuffs. About half of the people of Manua were brought to Tutuila in order to relieve the situation.

The rainy season extends from December to March. February shows the greatest average rainfall, 24.1 inches; August the least, 7.8 inches. The average yearly rainfall for 20 years in Pago Pago has been 195.5 inches. The year 1908 shows the greatest rainfall, 284.4 inches, and the year 1905 the least, 130.05 inches. The temperature is

highest during the summer months, December to February; coolest during the winter months, June to August. December shows the highest average temperature for 20 years, 82.4° F., and June the lowest average temperature, 79.7°. The highest temperature is about 88° and the lowest is about 68°. See Appendix H and Appendix I for detailed data on temperature and rainfall.

In the harbor of Pago Pago there is much rain, Mount Peoa the eastern side of the bay being called the "Rainmaker" from its habit

of precipitating the moisture out of every passing cloud.

This climate, where there is so little variation of temperature from day to day, together with the limited diversions, affects people from temperate zones according to their temperamental adaptability to tropical conditions. Those persons who abstain from overindulgence in intoxicants, and who do not attempt too great physical or mental activities during the middle of the day, can remain here for many years with little or no harmful effects. Others, who attempt the same strenuous methods of living to which they were accustomed in colder climates, soon complain of increasing irritability and forgetfulness, with more or less physical breakdown. Such persons are likely to find a return to a temperate climate advisable after about two years.

GOVERNMENT.

The seat of government is at the naval station in Pago Pago Bay. The governor is at the head of the government. He is also the commandant of the naval station and commands the station ship. The secretary of native affairs, an executive official, has cognizance of all native affairs and native officials, acting under the direction of the governor. The position of chief customs officer is held by a naval officer, so appointed by the governor. The public works officer of the naval station acts in the same capacity in the island government, and as such is superintendent of roads. The captain of the yard, or executive officer of the naval station, is sheriff and responsible for the public safety. The island treasurer is a naval supply officer, who also acts as general storekeeper of the naval station. The public health officer is the senior medical officer, who, in addition to his naval duties, has direct charge of the Samoan Hospital and outlying dispensaries and is responsible for quarantine regulations and the sanitary conditions of the islands. The navy chaplain is superintendent of education for the island government.

American Samoa is divided into three general administrative divisions—Eastern District of Tutuila, Wastern District of Tutuila, and Manua District—these corresponding to the Samoan political divisions which have existed from early days. Each district is administered by a native district governor appointed by the governor. The districts are divided into counties, each administered by a county chief. These are also very ancient political divisions, each ruled by one high chief. The county chiefs are appointed by the governor, but the selection is limited, as the office is usually given to the chief whose name entitles him to it by Samoan custom—an hereditary position which is held during good behavior. District governors are chosen from the rank of county chiefs.

Each village is controlled by a village chief, "pulenuu," elected annually and appointed by the governor if the selection is approved.

The village councils are composed of the "matais" (heads of families) in each village, and each is presided over by the village chief, except on occasions of the election of the village chief when the village magistrate presides.

The suffrage is restricted to the "matais," in accordance with the Samoan custom, whereby the family, not the individual; is the unit

of society.

The district governor, county chiefs, and village chiefs have each a policeman, who acts as messenger and assists in keeping order.

Laws are enacted by the governor.

The annual fono (general meeting) is held the latter part of each year, to which all parts of the islands send delegates. The people are notified in advance and have preliminary district meetings in which are discussed matters to be presented at the annual fono and in which petitions are prepared. At the fono matters of general interest are discussed, new laws or changes in existing laws are recommended, and information is asked and given regarding all matters connected with the administration of the government.

A monthly newspaper, "O le Fa'atonu," is the government gazette, containing all new regulations and instructions, together

with information of local interest.

LAWS.

The codification of the laws, regulations, and orders for the government of American Samoa were carefully revised by Albert M. Noble, judge of the high and district courts, by order of and under the supervision of Capt. Waldo Evans, United States Navy, governor, early in 1921 and printed in book form in both the English and Samoan languages. This is the first bound edition ever given to the

Samoans in their native tongue.

The organic law of American Samoa is regulation No. 5 of 1900, "A declaration concerning the form of government for the United States naval station, Tutuila." This provides that the laws of the United States be in force unless expressly modified; that the Samoan customs, not in conflict with the law, shall be preserved; that the Samoans shall retain their village, county, and district councils who meet to recommend laws, and who are charged with the cleanliness of the villages, counties, and districts, the planting of lands, the making of roads, and matters of local interest. Political divisions are established and administrative native officials are provided for as described in the preceding section.

The judicial power is vested in a high court, district courts, and village courts, and the jurisdiction of each is defined. The office of secretary of native affairs is established and his duties defined. This organic law has been found to be generally satisfactory and

has been subject to but slight amendment.

Some of the other laws as passed from time to time are as follows: Customs regulations provide for specific duties on spirits, tobacco, jewelry, etc., and an ad valorem duty of 15 per cent on general merchandise. The free list comprises fresh meats, vegetables, fruit, live animals, and printed matter. A tabulated list of customs duties will be found in Appendix A.

Pago Pago is made the only port of call or entry in American Samoa. All incoming freight must be delivered to the customs department, which receives the freight in the customs warehouse and delivers it to the consignees. A small handling fee is charged.

The importation and manufacture of intoxicating liquors is pro-

hibited.

The importation of firearms or ammunition by anyone is pro-

hibited unless a special license is granted by the governor.

Natives are allowed only shotguns for sporting purposes, the number allowed in each village being in proportion to the population.

Licenses are collected semiannually from persons engaged in the various occupations, and also from stores and warehouses. Most of

the persons who pay licenses do not pay taxes.

Taxes are assessed by the governor on the 15th of November for the following year. The procedure for apportioning and collecting the taxes is also provided for.

All vessels departing from American Samoa bound to the United States or any insular possession shall declare a manifest at the cus-

tomhouse of cargo taken on in American Samoa.

The importation of opium is forbidden; likewise the importation of all drugs and patent medicines, unless specifically approved by the health officer.

Dogs shall be registered and wear a license tag. The fees are:

Males, \$1 per year; females, \$2 per year.

Stallions and bulls for breeding purposes must be registered and

licensed.

No animals except domestic animals shall be imported without special permission, and a certificate must accompany such animals from the port of departure showing that the animals have no disease, and that no contagious or infectious disease exists among the

animals of that class in the country whence shipped.

Passengers without visible means of support shall not be landed. Persons desiring to remain in American Samoa shall deposit \$100 with the customs officer, to be returned upon the departure of the passenger or after a residence of one year. It is prohibited for the master of any vessel to discharge any member of his crew unless arrangements are made for maintenance and removal.

The alienation of native land is prohibited. Foreigners may lease land for a period not exceeding 40 years. The lease must be approved

by the governor.

The marriage laws provide for publication of notice of intention to marry for a period of two weeks. Foreigners must obtain a certificate from the governor that they are free to marry according to the laws of the land. Licenses to marry are issued by district judges. Marriages may be performed by clergymen or district judges and must be recorded in the marriage register; the fees to be charged are fixed by law.

The divorce laws provide the following grounds for divorce: Adultery, previous existing marriage, habitual cruelty, desertion for one year or upward, and sentence to imprisonment for 10 years or more. The court has no jurisdiction unless the applicant has been a resident for at least one year. Hearings are held in the district courts, and the

proceedings are sent to the high court for decisions.

The Sunday law prohibits working or doing business on Sunday, with necessary exceptions, and also prohibits the disturbance of re-

ligious services.

Religious freedom is provided for. No person shall be anywise molested, punished, disquieted, or called into question for any difference of opinion or belief in matters of religion.

Gambling and lotteries are prohibited.

The important criminal offenses are defined and punishments established.

Compulsory vaccination is provided for.

The registration of births, deaths, and marriages, the adoption of children and the registration of a "matai" name, all are made compulsory.

The law of eminent domain provides for the condemnation and acquisition of private land for the use of the United States Govern-

ment.

A permit to build must be secured before erecting any building of

foreign construction.

Natives may not enter into contracts for more than \$25 or contracts to labor for a period exceeding one month unless the contract be in writing approved by the governor.

The position of registrar of titles is provided for and instruments

must be filed for registration.

The currency of the United States is the only legal tender. Government checks and copra receipts are negotiable, and discounting them is forbidden.

The rate of interest where not specified in a contract is 6 per cent per annum. Where the interest is specified in a contract, the limit is 8 per cent per annum.

The game law prohibits the shooting of pigeons and doves between

March 1 and August 30 of each year.

The road law provides that natives shall construct and maintain roads in good condition. Each county is made responsible for the roads within its limits. The civil government pays half the cost of constructing new roads and builds and maintains bridges.

The educational law provides for the compulsory education of

children who have not completed the fourth grade.

LAND TITLES-LEASEHOLDS.

There are no public lands in American Samoa. When the American flag was raised, there were no Crown lands in these islands, and all of the land was owned by individual proprietors. The land required by the United States Government for its naval station, about 40 acres, was acquired by purchase or by condemnation proceedings, where full compensation was given. Nearly all the land is owned by natives, but a few small tracts are owned by foreigners, the titles having been established before the land commission during the Government under the Berlin general act, between 1890 and 1899. There is no opportunity for Americans to become planters in these islands, because of the small amount of arable lands. There is but one white planter in American Samoa at present, Mr. E. W. Gurr. His plantation is a freehold in a valley on the north side of the island. He

has planted coconut trees, rubber, cacao, and a small amount of coffee. The Mormon mission holds 360 acres of land in the western district under a lease of 40 years, acquired in 1902, and it has expended considerable sums of money in clearing and planting the land with coconuts and stocking it with cattle.

SOIL AND ITS PRODUCTS.

The soil is a rich mold upon the slopes and even upon the precipitous mountain sides, while the valleys and level tracts are a deep alluvial deposit of the same, the whole a decomposition of vegetable matter, with only a slight proportion of decomposed lava. This being impregnated with iron makes a vigorous tillable loam. So rapid is the growth and decay of vegetable matter, and so long has it been accumulating, that the interstices of broken lava upon abrupt declivities are filled with soil which is again protected from heavy washes by trees and shrubbery.

Lava beds descend to the sea in many places, with black and forbidding faces. The "iron-bound coast" extends for several miles east of Leone Bay, the edge of a great lava bed, against which the sea roars unceasingly. The sea has cut tunnels in the lava, breaking through the crust many yards inland; the air compressed within the tunnels or chambers by the surges of the sea forces the imprisoned water high into the air through these inland "blowholes" with a geyserlike effect. On a stormy day the sight is a magnificent one.

The hills and valleys are rocky, but the volcanic rock is still disintegrating. Many landslides occur during the wet season from this

cause.

A list of the trees of Samoa, prepared from the report of Col. A. B. Steinberger, W. E. Safford's "Useful Plants of Guam," and notes of residents of Tutuila, and which list is believed to be substantially correct, though incomplete, is appended, marked "Appendix B."

Nearly all tropical plants which have been tried in Samoa are

found to flourish.

In clearing land for plantations the trees are left on the ground as they fall, and in from three to five years have decomposed and disappeared. The whole surface of the islands has been heavily wooded, but the clearing of land is progressing slowly.

The dense forests have some valuable timber, but most of the wood is unsuitable for building purposes, rotting quickly when cut and

dressed.

The hard wood is used by the natives in building their houses. There are no sawmills, and no attempt has been made to market the timber, which is not abundant enough to make it worth the labor of

getting it to the coast.

Samoan fruits comprise the orange, lemon, lime, citron, mango, alligator pear or avocado, vi, papaya, pineapple, nonufiafia, banana, and a few other tropical fruits. Citrous fruits are subject to scale. Lemons are of a poor quality, large, thick skinned, spongy, and with little juice. There is no outside market for fruit. Some of these fruit trees are described in Appendix B.

The Samoan vegetables are chiefly the breadfruit, taro, and yam. Bananas are used as a vegetable. There are practically no other vegetables in common use. The breadfruit is described in Appen-

dix B. The taro (Caladium Colocasia) is common to tropical coun-It is a succulent plant with edible, starchy, tuberous root-The leaves are large and heart-shaped. The plant is cultivated, but requires little care. There are several varieties, one variety growing best in wet places and another variety growing best on newly cleared land and on the hillsides. When the taro is mature it is dug; the tops of the rootstocks are cut off and at once replanted; they take root and mature in less than a year. Taro is cooked in many ways, usually roasted or boiled, but is never made into "poi," as in Hawaii. It has a high percentage of carbohydrates, of which starch is the most important, and a low percentage of fat, protein, and crude fiber. It furnishes an abundance of nutritious food, which alternates with breadfruit in the diet of the Samoan. Europeans soon cultivate a taste for taro.

The yam (Dioscorea) (Samoan, "ufi") is another tuber very common in the Tropics. There are many varieties in Samoa, each with a

distinctive name.

The yam grows to a much larger size than the taro. It is more difficult to cultivate; therefore it is not grown nearly so extensively as is taro, although the soil is suitable for its growth, and it is well liked by the natives. In planting the yam, the earth must be loosened to a considerable extent around the roots, and a heap of. earth made for each plant, whereas, in planting the taro, the native pulls up a few weeds, makes a hole in the ground with a stick, inserts the tops cut from the taro root, and nothing more is done until the taro is ripe and is pulled up or dug from the earth.

Bananas are of many varieties and are extensively cultivated,

each family having its banana plantation for its own use.

Many vegetables of the temperate zone thrive in Samoa, but there are no truck gardeners in Tutuila. The following vegetables have been grown with success: Tomatoes, lettuce, radishes, beets, carrots, cucumbers, parsley, sweet corn, eggplant, onions, beans, watermelon, and sweet potatoes.

Arrowroot ("masoā") is indigenous, but is seldom cultivated.

is used in puddings or fancy dishes.

Kava (Piper Methisticum) (Samoan, "ava") is a shrub grown extensively throughout Samoa for its root, from which the national beverage of the same name is made. The drink is an emulsion of the powdered kava root and water, prepared and served with great ceremony. It is not an intoxicant and has no injurious effects unless drunk in large quantities. Kava is used in Germany and America in the manufacture of certain medicines.

Sugar cane is grown to some extent, principally for the leaves, which are used for the thatch of the native houses. A parasite has recently been found in the sugar cane which has done much damage. It is not likely that the cane will ever be grown here for export in the form of sugar.

Coffee has been grown in small quantities with success, but none

has been placed on sale.

Tobacco is grown by natives for native consumption. It is a strong variety and thrives well. The natives roll cigarettes from it in pieces of dried banana leaf.

From the pandanus are made several kinds of floor mats and

sleeping mats.

The most important product of the soil of Samoa is the coconut ("niu"). This tree gives meat, drink, and shelter to the Samoans. It grows anywhere it is planted—in the sand on the coast where the roots are laved by the sea; on plateaus, on the slopes, and even on the mountain ridges, where it stands out like a sentinel against the sky. The trees begins to bear nuts when about 5 years of age and are mature at 7 years. The trees grow to be very tall and are very strong. The roots form a dense network extending many yards from the trees, enabling them to withstand the heavy trade winds.

From the husk of the coconut (coir) the men plait sennit, with which they bind together the parts of canoes and all parts of the framework of the houses without the use of nails. The shell is used for drinking cups and for fuel. The leaves are used to make rough baskets, rough mats, and to place on the thatches of the houses to hold them down in windy weather, and when dry the leaves are used as torches. From the midrib of the leaves crude brooms are The wood of the trunk is too perishable to be of any great value, but it is used rough hewn for rafters in the native houses, and whole sections of the trunk are sometimes used for rustic bridges The water of the green nuts is used for drink, and in some villages where there are no springs it is their only beverage. It is slightly sweet, delicate, and wholesome. The nut is first husked on a sharp stake and a circular piece of the shell is cracked off with a knife or a stone. On the hottest days the water within the nut is found to be cool and is a very refreshing drink. The kernel of the coconut, adhering to the inside of the shell, is frequently eaten raw, but is chiefly eaten in a cooked state; the nut is grated and the "milk" is expressed by inclosing the shredded meat of the nut in a fibrous skein and wringing the same in the manner clothes are wrung by hand after washing. This milk coagulates on heating. It is cooked with taro, bananas, and breadfruit, and makes a rich soup, having a very pleasant savor. The raw "milk" as expressed from the grated pulp of the nut is used with coffee as a cream, and a good cheese has been made from it.

COPRA.

The chief usefulness of the coconut is the copra produced from it. Copra is the dried kernel of the ripe coconut. It is the principal—in fact the only—export from American Samoa. It is shipped to foreign countries, where oil is expressed from it. This oil is in great demand in the manufacture of coconut butters of various kinds, soaps, salad oil, and for other purposes.

The principal markets for South Sea copra are San Francisco,

Sydney, London, Hamburg, and Marseilles.

The copra of American Samoa is sun dried and of excellent quality. Since the raising of the American flag the Government has encour aged the natives to plant more coconuts, to dry their copra thoroughly, and to bring in only the best quality of copra, cut from ripe nuts, and excellent results have followed.

The quantity of copra produced varies according to local conditions. The maximum amount ever exported was in 1912, when 1,526

long tons were shipped.

The highest contract price ever received was \$156.80 per ton in 1920.

Copra is the only product exported and one of the important governmental functions is handling of the copra for the natives.

From the establishment of the government, until the present year, the native taxes have been assessed in copra, which the government has marketed. At first the natives delivered to the government only a sufficient quantity of copra to pay their taxes, the remainder of their crop being sold by the natives to traders. In 1903 some of the natives had their surplus copra marketed by the government, and at the "fono" (general meeting) of that year a request was made by the natives that the government handle all the copra of the islands, and since 1904 no copra has been sold by natives to traders.

The question as to whether the government shall continue to handle the copra is discussed every year, and resolutions have been made annually that it is the wish of the people that the government continue to handle it. Blank proposals, which are sent to copra buyers in all parts of the world, are opened in January. The contract being awarded to the highest bidder, if approved by the governor, covers the product of all plantations of Tutuila and the Manua

group for the calendar year.

After estimating the expense of handling and of possible shrinkage of the copra, the price is fixed to be paid to the producers for copra delivered to the various copra sheds. At the close of the season the surplus of money received from the contractor over that paid to the producers for copra is divided pro rata among them. For example, in the year 1920 the contract price of the copra, paid by the South Seas Pacific Co. was \$156.80 per ton of 2,240 pounds, or 7 cents per pound. The producers were paid the uniform price of 6 cents per pound upon delivery at the copra sheds. At the close of the season the shrinkage and expenses were ascertained, and the surplus was apportioned.

The shrinkage is calculated for each district separately, and varies from about 5 to 8 per cent of the copra delivered. The shrinkage is caused principally by evaporation of the moisture in the

copra, but partly by loss in handling.

The secretary of native affairs handles all the details of the copra business.

Appendix C is a statement of the copra sold since 1901, with amounts obtained. Appendix D is a statement of surplus copra from 1907 to 1920, inclusive.

FAUNA.

The Samoan live stock consists of cattle, horses, and pigs. Cattle thrive well and are of great value on coconut plantations in keeping down the growth of weeds and grass. The number of cattle and of horses is constantly increasing, although the number is still small. An attempt to improve the breeds is being made, cattle, horses, and

pigs being imported for breeding purposes.

The natives raise a great many pigs, which are in great demand when feasts are given. A good-sized pig is worth about \$50 at such time. Only recently have the natives begun to like fresh beef as a food, although corned beef has long been a favorite delicacy. There are a few donkeys on the Mormon school plantation, and they are well adapted to the rough work required of them. No sheep are found here, as the natives will not eat mutton.

Many fowls are found running at large in the villages, but they do not thrive well when kept in captivity.

Domestic animals are represented by dogs and cats, there being

no scarcity of either class.

There are many birds in the forests, some of very beautiful plumage; some of them are song birds. The most important bird in the estimation of the Samoan is the lupe or wild pigeon, of which there are several varieties. These pigeons are practically the only game bird of the group, and the game law protects them during the season of breeding. Among the Samoan birds may be mentioned the bat, flying fox, wimbrel, heron, frigate bird, and the tropic or boatswain bird.

There are no snakes in Tutuila. In the Manua group nonpoisonous species are found.

Centipedes are found here, and people are frequently bitten by

them. There are numerous lizards.

The most pestiferous insects are the flies and mosquitoes. Efforts are being made to abate these nuisances, but it is difficult to arouse the interest of the natives.

The village chiefs are required to make periodical inspection of the breeding places of mosquitoes and flies and to insist on cleanliness in and around the houses and the villages.

The white ant causes some serious losses by its ravages in wooden

structures and even in furniture.

It is said there are over 600 different varieties of fish found in Samoan waters, some of which are edible and some poisonous. Dr. David Starr Jordan, of Stanford University, California, visited Samoa in 1902 and made a report on fishes in Samoa, which has been published in a large volume, with numerous plates.

Edible fish are not plentiful, and the natives do not engage in

fishing as a commercial pursuit.

Crabs and crayfish are found on the reefs, the village of Nuuuli being noted for the number of these crustaceans caught in the

vicinity.

Palolo is a remarkable species of marine worm which has its home in the coral barrier reef and which comes to the surface of the water on the night of the last quarter of the moon in October. If the last quarter of the moon is early in October the palolo does not come until the last quarter of the November moon. The natives know when to expect the palolo and know where to find it; they consider it a great delicacy.

INDUSTRIES.

There are no factories here of any kind. The natives dry their copra by the primitive but satisfactory method of spreading it on mats in the sun. There are a few boat builders; they use no power machinery. There are no waterfalls capable of furnishing power, although one or two are probably large enough to drive generators for furnishing electric light.

The native women manufacture floor mats and sleeping mats from the leaves of the pandanus, but the mats are for home use only and not for sale. The "fine mat" (i. e., toga) is woven from the "lau ie," probably a species of pandanus. The leaves of the plant of two years' growth are gathered into bundles, dried in the sun, scraped well, and split by means of mussel shells. The fineness of the thread depends upon the skill of the operator. Women often work together to make a number of fine mats for some special occasion. The finished mat is soft, finely woven, cream colored, with the red feathers of the "sega" bird often worked into a fringe on one edge. The new ones vary in price from \$5 to \$20, but the old ones with family traditions connected with them are valued sometimes as high as \$200. In former days the wealth of a family was reckoned in fine mats. On the celebration of births, marriages, deaths, Samoan apologies, or other important functions, many fine mats are given by one of the parties and a very careful account is kept of such presents. The importance of a family is shown by the number of fine mats given or received on one of these occasions. The fine mat was formerly worn as a lavalava or skirt on occasions of ceremony.

Tapa cloth or "siapo," the dress of the natives in olden days, is made from the inside bark of the paper mulberry, "ua," cultivated extensively. The bark is beaten with a mallet while wet. The thin pieces are bleached and dried and are then joined together with a paste made of arrowroot. The smooth cloth is then painted, generally in shades of brown, with various designs. It is still used for curtains, screens, table covers, or for clothing on important occasions. A small piece of tapa may be bought for \$1, the price increasing with

the size and quality.

Kava bowls are made by hand, usually from the wood of the "ifi lele," a fine, hard redwood. They measure 18 inches to 3 feet in diameter, are nearly always circular in shape, are carved from a single block of wood, and show from 4 to 40 legs on periphery of the bowl. They take a fine polish from the kava which is made in them and are prized highly. Coconut shells are polished and carved for use as drinking cups, particularly with kava.

Fanciful war clubs, fans, baskets, hats, and necklaces of shells and

beads are made to sell to tourists.

The native houses are very skillfully made by native house carpenters. The framing is all lashed together with sennit and the thatch is lashed to the roof in the same manner. These houses are clean, cool, and water-tight. The floor is made of small pieces of coral which have been worn smooth on the beach. When visitors appear mats are unrolled and cover nearly all the floor. The houses are either round or elliptical, according to taste. Curtains, called "pola," are arranged to let down in sections around the sides for protection against wind or rain. The roof is heavily thatched with the leaves of the sugar cane, the house looking like a gigantic mushroom.

Canoe making, like house building, is confined to a select few who show great skill in their trade. The large canoes are not dugouts but are made in sections, the pieces lashed together with sennit; the joints are so neatly fitted that no water can enter. A very small canoe, known as the "paopao," is a dugout, made from the trunk of a tree

of light wood.

PEOPLE.

Mr. William Churchill, in his book, The Polynesian Wanderings, shows by the linguistic method that the Samoans originally came from Indonesia. Leaving India they journeyed eastward through

the Malay Archipelago, occupying perhaps generations in their journeys from island to island. At the time of their passage, the Malays, who are Mongolian, had not come into those islands. One swarm of people came around the north side of New Guinea, entered the Pacific, and at last reached Samoa; another swarm was driven by the advancing Malays to the south of New Guinea, and came to Fiji, whence they resumed relations with other Polynesian tribes. They all avoided the islands of Melanesia, inhabited by black people (New Guinea, New Caledonia, New Hebrides, etc.). They were the most skillful navigators of their age, or, probably, of any age, making

journeys of hundreds of miles into unknown seas. The Samoans are the true Polynesians, probably the finest physical specimens of the race. In appearance they are of a light reddishbrown or copper color, well formed, erect in bearing and handsome in features. The face has many of the distinctive marks of the Euro-The nose is straight, the chin firm and strong, the cheek bones rather prominent, and the forehead high. The hair is black and soft-sometimes wavy. There is nothing about them to suggest the Negro. The men are tall, proud in bearing, muscular in limbs and torso, seldom corpulent-withal, a very handsome race of men. The women, while fit mothers for a race of strong men, are not often noticeably beautiful in features. In girlhood and early womanhood they have beautiful figures, but, like other natives of the Tropics, they do not retain a good figure long. They are graceful, lighthearted, and merry; their eyes are soft and dark, with an expression

of gentleness and meekness.

The Samoan does not like to work. For this trait he has been severely criticized, but the critics do not take into consideration his life and environment. His wants are few; the climate demands that little clothing be worn; nature is prodigal of her favors; and the heat of the day is not conducive to exertion. It is customary for the Samoans to rise at daylight and do the hardest work of the day before the sun is high. Their food is easily produced; breadfruit requires no cultivation; bananas, taro, and yams require little beyond the planting; pigs and chickens are raised to a considerable extent, but are generally reserved for food at feasts, not for ordinary daily use. The men and women fish on the reefs. There are certain fish which the women catch, and these are to be found under stones on the reef; the women also collect clams and other shellfish. Men spear the fish from canoes, or while standing on the reef, and they also use the hook and line in deep water, by day and by night. This kind of labor the Samoan likes. He will row or paddle in his boat for hours at a time with no fatigue, but it is not easy to induce him to do a day's work in the towns. There are, however, notable exceptions to this rule, and when there is a proper incentive the Samoan is capable of the hardest kind of work. There is no desire to amass By the simple communistic system under which the Samoans live, each person contributes the profits of his industry to the family fund, and there is no incentive for one person to work harder than his fellow laborer; the drone fares as well in the good things of life as the worker. Energy and ambition must be manifested in the head of the family in order to produce any increase in prosperity.

The Samoans are intensely religious. It may be said that all Samoans are Christians, and, though many of them are not church members, all go to church. There are family prayers in the morning and evening in every Samoan home, and Sunday is very religiously

observed as a day of rest.

The missionary societies represented are the London Missionary Society and the Methodist Missionary Society of Australasia (Wesleyan), Protestant; the Societé de Marie, Roman Catholic; and the Church of Latter-Day Saints Mission, Mormon. All Samoan churches belong to one of these societies. The London Missionary Society has the greatest number of adherents. The membership, including men, women, and children, as claimed by the various denominations April 1, 1921, is as follows:

London Missionary Society	
Roman Catholic	860
Mormon	270

With the exception of the Mormon mission, whose adherents are comparatively few, the missions in Samoa are self-supporting. The Samoans contribute large sums to religious enterprises, and many Samoans are sent as missionaries to other South Sea islands.

The people are generous and hospitable to a remarkable degrée. Any stranger is given a cordial welcome in any house, given food and sleeping accommodations. There are so few foreigners in these islands that this admirable trait has not been stamped out by imposition or abuse of confidence. The child born out of wedlock labors under no disadvantages, and an erring girl is soon forgiven by her family and by the community. There is no polygamy.

The art of falsehood is extensively practiced, but open, barefaced perjury in the courts is rare. In criminal trials the alibi is practically unknown. Petty theft is common, but grand larceny, burg-

lary, and robbery seldom occur.

The women marry young, and large families are the rule. During the 20 years of American occupation the population has increased

41 per cent. Samoans seldom emigrate to other countries.

The dress of the people consists of a "lavalava" or loin cloth, and in the case of women of a waist or upper garment of some kind, sometimes of a long, loose gown. The men consider it undignified to appear without a shirt or coat or both on occasions of ceremony, such as attending church, visiting foreigners, or receiving distinguished guests, but on ordinary occasions they wear no clothing but the "lavalava." The women wear only the "lavalava" in their own homes or where only Samoans may see them, but it is usually considered immodest for them to expose the bust in the presence of foreigners, except when unmarried girls take part in some Samoan ceremony such as dancing the siva, the national dance. On ceremonial occasions the men and women frequently wear their fine mats or tapas as clothing.

Tattooing, though prohibited in the Manua group, is universally practiced in Tutuila. A young man is not supposed to meet other men on equal terms until he has been tattooed. The tattooing is performed by skilled operators on special occasions which are marked by feasting and the giving of presents. The tattooing extends from a line above the hip bones nearly to the knees, and the pattern is

nearly the same for everyone; from a little distance it looks as if the color were laid on uniformly and solidly. The missionaries at first attempted to abolish the practice, and laws were made against it, but to no avail. The custom will doubtless disappear in the course of time, as there is little to recommend it. The operation is painful, and the young man is usually laid up for several weeks following the tattooing, which, in itself, takes three or four days with intervals of rest between. The women usually are not tattooed at all, but some of them have numerous small designs tattooed on the legs and the back of the hands.

HEALTH AND HYGIENE.

The magnificent physical development of the Samoan race, the salubrity of the climate, the simple habits of the people, and the absence of the more deadly communicable tropical diseases are factors which, in conjunction with sanitary supervision, education, and ample facilities for free medical treatment, have enabled the natives of American Samoa to increase in numbers 41 per cent during the period from 1900 to 1920 under American occupation.

Prevailing communicable diseases are filariasis (not infrequently manifested as elephantiasis), yaws, Samoan conjunctivitis (more properly ophthalmia), dengue, simple influenza, and almost universal infestation with intestinal parasites (hookworm, roundworm, whipworm). Measles was epidemic in 1893 and 1911, and caused many

deaths, especially in 1893.

A striking feature of hookworm disease in Samoa is the resistance of the native population, as shown by the comparative rarity of marked classical symptoms seen. These symptoms are seen as a rule

only in the very young and in the aged.

All villages in American Samoa are now equipped with fly-proof latrines, and it is believed that the incidence of intestinal parasitism will steadily diminish and be reduced within a few years to a very small percentage of cases.

Many of the scourges of other tropical countries are unknown in Samoa, such as malaria, cholera, yellow fever, tropical dysentery, plague, and leprosy. The population is kept protected from small-

pox by systematic vaccination.

The naval medical personnel of the naval station have entire charge of public health and the medical treatment of the people. There are no civilian physicians and no field for them, as the native population is treated without cost and the foreign population is very small. The senior medical officer of the naval station is the public health officer and quarantine officer of the port of Pago Pago and has charge of the organization for the prevention of disease among the native population as well as of the medical department of the naval station.

On the station the naval dispensary provides for the treatment of the naval personnel. The Samoan Hospital, located at Pago Pago on land belonging to the naval reservation, is entirely distinct and consists of a central frame building containing the office and consultation room, the dispensary, and the dressing and treatment room. A separate frame building contains the operating and sterilizing rooms. The wards consist of three very large Samoan houses which

in this climate provide a much better housing for the native sick than could a foreign type of building. The Samoan houses are cool, provide a maximum of ventilation, and furnish an environment to which the natives are accustomed.

There is also a small native house for special cases and isolation and the necessary toilet buildings, with shower baths and flush

toilets, and other outhouses.

One naval medical officer devotes his entire time to the Samoan Hospital. Four members of the Navy Nurse Corps (female) are also on duty there. The Samoan Hospital Training School provides a two-year course of training for young native women. The pupils are carefully selected from among the most promising of the graduates of the missionary schools for girls. They are given a thorough training in nursing, and those who pass successfully through the school and are graduated are competent trained nurses. After graduation they alternate between duty in the hospital and visiting work in the villages. These visiting nurses care for the sick and advise the people in sanitation and the care of babies. There are also two Samoan hospital corpsmen, enlisted in the regular Navy, attached to the hospital.

There is a branch dispensary at Leone, on the western end of Tutuila, and one at Tau, in the Manua group. These dispensaries are frame buildings, and each has a Samoan house as a ward. Each is in charge of a chief pharmacist's mate of the Naval Hospital

Corps.

A third branch dispensary is in the course of construction on the island of Ofu, in the Manua group. This branch will serve the islands of Ofu and Olosega, which are separated only by a narrow strip of shallow water which can be waded at low tide.

A daily clinic is also held at the government school at Pago Pago. A sanitary inspector makes periodic inspection of all villages.

The naval dental surgeon attached to the station holds a clinic two days in each week, at which natives receive dental treatment free

of cost.

With the generous approval of the Navy Department a promising and ambitious graduate of the Samoan Hospital Training School was sent to San Francisco and received several months of postgraduate instruction at the Naval Hospital, Mare Island, and at a hospital for women and children in San Francisco. This nurse is now of great value as an assistant instructor in the training school, and is at present on a tour of the villages, lecturing and demonstrating to the women on the proper care of their children.

Efforts to protect American Samoa from invasion by the great pandemic of influenza in 1918–1920 were successful, as not a single case occurred, although there was no interruption of commerce and the regular mail steamers and other vessels discharged their cargoes without delay. In other islands within sight 19 per cent of the total

population died of influenza.

In January, 1921, by direction of Gov. Evans, there was published in the Samoan language a pamphlet entitled "Sanitary In-

structions for the People of American Samoa."

This pamphlet is the result of careful study and observation of the mode of living, habits, and diseases of the Samoan people, and the

instructions contained therein will, if followed, aid greatly in reducing disease and add much to the health and comfort of the people.

A copy has been given each individual family, and the village chief is held responsible for the enforcement of these instructions.

SCHOOLS.

The foundation of the school system of American Samoa is the parish school, conducted by the native pastors of the various denominations. These schools are of varying efficiency, but none of them could be classed as good. The children go to these schools four days of the week, for about one to three hours a day, depending upon the energy of the pastor. There is no governmental supervision, except that by a law all children between the ages of 6 and 13 years are required to attend school regularly. The subjects taught are reading, writing, spelling, arithmetic, grammar, and geography, with a large proportion of time given to religious instruction. The textbooks are printed in the Samoan language. It is said that all Samoans are able to read and to write, but their education is extremely limited, except as to the Bible, with which they are more familiar than is the average American.

The London Missionary Society was the pioneer in establishing schools and to its great enterprise is also due the translation of the Bible, the publication of a large number of textbooks, a few books on general topics, and a monthly religious newspaper. The systematic instruction of all its adherents in its own schools was begun shortly after the mission was established in Samoa.

The Roman Catholics, the Wesleyans, and the Mormons also con-

duct parish schools.

The schools next higher to parish schools are few in number. The London Missionary Society has two boarding schools, one a school for boys at Fagalele, near Leone, where boys are trained chiefly to fit them to enter the seminary for pastors at Malua, Upolu; the other a school for girds at Atauloma. The Fagalele school is in charge of the resident white missionary, who also has general charge of all interests of the society in American Samao. The Atauloma Girls' School is in charge of two resident white missionaries—unmarried women. The girls are given instruction in domestic science and manual training in addition to the usual studies.

The Mormons have a school at Mapusaga for both boys and girls. English is taught there, and much attention is paid to the instruction

of the boys in planting coconuts, etc.

The Roman Catholics have two schools for girls in Pago Pago Harbor, in charge of white sisters of the Marist order. One of these is a convent school and the other a general school in which the instruction is in both the Samoan and English languages. The Marist Brothers also conduct a school for boys at the same place.

All of the foregoing schools are under private auspices, and in

some instances a tuition fee is charged.

In 1904 the natives of the western district of Tutuila, with the consent of the governor, entered into a contract with the order of the Marist Brothers at Leone to furnish three white brothers as instructors for a special district school which they desired to establish. This school has continued ever since. It is under the supervision of

the government superintendent of education, and the instruction given is entirely in the English language. The attendance averages over 100 boys. The salaries paid these teachers (\$1,200 per annum)

is obtained by special taxation within the district.

Prior to 1921 there was but one school which could actually be called a government or public school. This originally was a small wooden building and had a floor space of only 514 square feet. The instruction was entirely in English and given by a normal school graduate from America, whose salary was paid from the customs revenues. This building, of course, was inadequate, and subsequently was replaced by a larger structure called "The Poyer School." This modern building, constructed of reinforced concrete blocks, has a floor space of 3,600 square feet and verandas with an additional area of 3,000 square feet—a total area of more than twelve times that of the old building. This school, dedicated January 23, 1918, represented an investment, including the land purchased, of about \$25,000. The teaching staff consists of an American as principal, assisted by three native graduates of the school.

In January, 1921, Gov. Evans instituted plans for a wide-spread development and expansion of the public school system throughout American Samoa. A board of education, consisting of the secretary of native affairs, the senior medical officer, the chaplain, all of the naval station, and two civilians, was appointed, directed to study the school situation, and to make recommendations for its improvement. As a result Tutuila has been divided into 13 school districts, and the Manua district into 2, the purpose being to establish a graded school in each of these districts and ultimately to change the Poyer School into a high school. Three such graded schools have already been started in the outlying districts, and the program will be pushed to completion as qualified native teachers become available.

The chaplain of the naval station is superintendent of education, and has direct supervision over all these Government schools. The instruction is but elementary, the principal idea being to give the children a comprehensive understanding of the English language.

At present salaries are paid from the customs revenues, but when the sys'em has been established throughout the islands a special school tax will be levied.

The following table shows the average attendance at the various schools:

1 140 4 264 16 214 2 49 4 36	848 183 175 43 58	1,748 140 447 389 92 94
	1 140 4 264 16 214 2 49 4 36	1 140

POPULATION.

The population of American Samoa has decidedly increased since the raising of the American Flag. It is believed that the increase is largely due to the improved methods of hygiene, the education of the natives in sanitation, the establishment of a hospital and training school for nurses, and the care of the Samoan sick given by the Navy medical officers, the Navy nurses, and the Samoan graduate nurses. A census recently completed shows the population to be 8,058, as compared with 5,679 shown by the census of 1900.

The following figures show the population of American Samoa in

January, 1920:

District.	Males.	Females.	Total.
Eastern Western Manua	1,917 1,249 926	1,860 1,159 947	3,777 2,408 1,873
Total	4,092	3,966	8,058

Appendix E shows the census returns from 1900 to 1920, and also the detail returns of the last census by villages, counties, and districts.

NAVAL STATION.

The primary purpose of the naval station is that of a supply base. There is a coal shed with a capacity of about 4,500 tons and a steel wharf with 30 feet of water alongside. Coal is supplied only to vessels of the United States Navy, but in cases of emergency merchantmen have been given a sufficient amount to carry them to the next nearest port.

The station is also equipped with storehouses for naval stores of all kinds and has limited facilities for repair work. The power

plant comprises refrigerating and electric lighting machinery.

There is an ample supply of the best water at all seasons and vessels may obtain any amount at any time. The water is of excellent quality for both drinking and boiler use.

A navy tug is assigned to the station for general harbor and island

duty.

The complement of naval officers consists of the commandant governor, captain of the yard, supply officers, medical and dental officers, a radio officer, civil engineer, and a chaplain.

TRANSPORTATION.

The Oceanic Steamship Co. maintains a monthly schedule between San Francisco, Honolulu, Pago Pago, and Sydney. Pago Pago is 13 days from San Francisco, 7 from Honolulu, and 6 from Sydney. Passenger rates from Pago Pago are as follows:

First class to San Francisco	\$200
First class to San I remaind	105
First class to Honolulu and Sydney	120
That class to Honorate and States	150
Second class to San Francisco	190
Second class to ban Francisco	00'
Second class to Honolulu and Sydney	90

The freight rate to Sydney is \$15 and to Honolulu and San Francisco \$25 per ton. The ton is either by weight or measurement, at the option of the carrier, measuring 40 cubic feet to the ton.

The motor ketch Ajax, 79 tons, operated by the South Seas Pacific Co., maintains a transportation service with western Samoa and

other islands in the vicinity.

The motor schooner *Leone*, 20 tons, built on the naval station, is operated by the customs department. This vessel is used principally in transporting copra from distant sheds on the island of Tutuila

to the shipping point in Pago Pago Harbor.

Between villages of the same island the natives make passage in pulling boats. Some of these village boats, called "fautasi," pull 28 oars and make excellent time. The boat in more common use is the double-ended whaleboat, usually fitted with sails as well as oars. The natives are exceedingly skillful as boatmen. They also construct outrigger canoes in large numbers, but these are used principally in the harbors, seldom on the open sea.

INFORMATION ON LIVING CONDITIONS.

There are no hotels in American Samoa. A limited number of persons could doubtless find some kind of accommodations should they wish to stay in Tutuila, but there is little here to attract tourists. One American-style building outside the naval station is equipped with additional rooms, and table board may also be obtained there, but the accommodations and conveniences are not of the best.

Government quarters are supplied on the naval station to all officers ordered here for duty. The quarters are completely furnished, except that the occupant must furnish his own table and bed

linens, chinaware, silverware, glassware, and kitchen utensils.

White uniforms and clothing are universally worn. Negligee shirts are desirable for tennis, picnics, hikes, etc. Clothing of the kind worn by officers, civilians, and their families can not be secured in American Samoa and should be brought from the United States. Dresses made of silk, other than washable silk, of chiffon, or other fabrics of this class will rot in a few months. Canvas shoes with neolin or similar soles are best adapted. Leather is not good. Get one size larger than a snug fit.

Persons dependent on glasses should have a reserve supply. It is advisable to have one or more pairs of glasses tinted as a protection

against glare.

The climate and environment are not as favorable for young children as is a more temperate climate. Many do well, but others are handicapped. White children born here thrive better than those who are brought here. A supply of excellent milk is available for infants. Samoan nursemaids are available, and they are faithful and kind to children.

As far as housekeeping is concerned, the Samoan is not as efficient as the Oriental; however, the Samoans are the only ones procurable.

A Samoan servant receives from \$15 to \$30 per month.

The climate is tropical and the weather very pleasant; in fact it is the most pleasant climate known within the Tropics. The nights are never hot and seldom are the days excessively hot. The humidity is high and rainfall heavy. Women and children are more adversely affected than men. Health and recreation trips to Australia are made easily.

There are no schools available for white children.

The roads at present time are not in a condition to be used by automobiles with pleasure; however, there are a number of motor cycles equipped with side cars from which much pleasure is ob-

tained. The roads are in the process of improvement, and it is hoped that in the near future they will be in such a condition as

to be conducive to the use of light cars.

Mails leave San Francisco via the steamers of the Oceanic Steamship Co., which sail on regular schedules from the United States for Australia via Hawaii and Samoa, averaging about one steamer per They stop here on the return trip from Australia, averaging also about one steamer per month. The mail address is Pago Pago, Tutuila, American Samoa.

The station is equipped with a library. The enlisted men's barracks, the enlisted men's club, the hospital, and the station ship are also equipped with libraries. It is desirable to have a magazine and

newspaper list of your own.

The Naval Communication Service has a semihigh-power radio station here, which is open to commercial traffic and is constantly

in communication with the outside world.

It is advisable for persons coming to Samoa to register a code address and arrange a code with some one in the United States to be used on important business or other emergency.

Electric lights (voltage 220), direct current, are installed in all the government quarters. Current is on from 5 p. m. to midnight

only. One or two oil lamps are advisable.

Provisions of all kinds, including meats and such other cold-storage supplies as will stand the long haul from the United States, are purchased from the Government commissary. A wide variety of dry and canned provisions is carried. The water supply is ample and of a high grade. The quarters are supplied with sewerage and run-All moderate-priced toilet articles and preparations are ning water. obtainable.

There are excellent courts on the station for tennis. Rackets strung with tropical gut and an extra set of tropical gut should be

brought along. Do not have rackets strung too tightly.

There is excellent swimming in the harbor of Pago Pago. Bathing suits and caps may be procured here, but they are not of a superior grade. "Pacific-coast style" bathing suits are best.

Pool, bowling, and moving pictures are available.

Inferior horses may be hired for riding.

The water teems with fish, but elaborate fishing tackle is not recommended. Hand-line fishing is very good at times, and all necessary

gear may be purchased here.

The only hunting is for wild pigeons, and not much of that; 12gauge gun with No. 4 to 6 shot is used. Shotgun shells are very expensive here, as they are not accepted by mail steamers as freight.

Light blankets are useful during the cool season, also light-weight

sweaters or flannel shirts.

A three or four burner, blue-flame oil stove with oven will be found very useful, as soft coal only is provided for cook stoves.

Cretonne or chintz for curtains and hangings is desirable.

Photographs and leather goods are damaged by the high-moisture

content of air.

The secretary to the commandant is furnished with quarters by the Navy Department without charge. The chief clerk to the commandant is furnished island government quarters at \$10 per month. The clerk to the commandant has a chance of renting a cottage from the

Samoan Hospital. Other civilians must take their chances at securing quarters on the outside, of which there are very few and of a very inferior quality.

ROADS.

About 50 miles of public roads have been constructed since the establishment of the government. The road follows the shore lines in most parts of the islands, and some of them have presented many difficulties in their construction. The standard width of the roads is 8 feet, but this is exceeded in most roads. The construction is generally very simple; coral, sand, or volcanic cinders have been used as surface material where practicable. The principal road runs along the southern shore of the island and around Pago Pago Harbor. Most of this road from the naval station westward has a foundation of rock and bowlders. Where it leads through the naval station—a distance of 1 mile—it is built of concrete and is from 12 to 14 feet wide, with sidewalk in addition.

The roads were originally intended for pedestrians and horses only, but since 1911, when carts were first introduced, the number of vehicles has increased steadily, so that the need for better roads is beginning to be felt. There are now an Overland runabout and four Ford trucks on the island, besides numerous motor cycles with side cars, and the island government has acquired a 10-ton road roller and a 3-ton dump cart to assist in bettering the roads. crusher, belonging to the naval station, is being used to produce crushed stone, quarried from volcanic rock, as a surface, as has already been done for about a mile on either end of the concrete road, and this material has thus far proved satisfactory. Where conditions warrant, it is intended to improve in this manner all the important roads, doing the work gradually as funds permit. Bridges are generally of wood, though several of the longer bridges consist of a wooden deck on two or three steel beams, the abutments being, for the most part, built up of rocks and bowlders. As the improvement work advances it will be advisable to replace the major bridges by reinforced concrete, since both wood and steel deteriorate rapidly in this climate. Small wooden bridges are being replaced by concrete culverts, and as drainage is very necessary in a country where the rainfall exceeds an average of half an inch per day throughout the year, this feature, as well as proper side ditches, is an important part of the work.

The cost of the work is borne equally by native tax and the island government customs fund. All road work is under the supervision of the public-works officer of the naval station, who is also superintendent of public works of the island government. Labor is obtained from villages in the vicinity of the work, except for special repair and bridge construction parties, which are sent from the naval station. Certain sections of road-improvement work are let out on contract to native chiefs for a given price per foot. The work is then carried on under supervision of a public-works inspector, and, since the chiefs can generally get entire villages to work for them, this method usually produces the best, quickest, and most economical results, besides fostering an enthusiasm among the natives, and in-

terest in the roads, which is a valuable asset in the work.

COMMUNICATION.

There is no cable communication with Pago Pago from the out-

side world. The nearest cable station is a Suva, Fiji.

However, there is a semihigh-power radio station which can communicate with practically all points in the Pacific, including fast schedules to San Francisco and Sydney. This station is under the control of the United States Naval Communication Service, and is open to commercial traffic.

POST OFFICE.

There is one third-class post office located on the naval station. The mail address is Pago Pago, Tutuila Island, American Samoa. One mail each month is received from both San Francisco and Sydney.

STORES.

There are 12 general stores in American Samoa, 8 of which are located around Pago Pago Bay.

IMPORTS AND EXPORTS.

The imports are increasing from year to year. For the calendar year 1920 they amounted to \$235,293, divided as follows: From the United States, \$126,185; from the British Colonies (Australia, New Zealand, Fiji, etc.), \$108,190; and from all other countries, \$918.

Copra is practically the only article exported, and this has been

considered elsewhere in this report.

A statement of importations will be found in Appendix G.

HOLIDAYS.

The principal native holiday is flag raising day, the anniversary of the hoisting of the Stars and Stripes over American Samoa. It is celebrated on April 17 in Tutuila and on June 5 in the Manua

group.

This is always a big day for the native population, vast numbers flocking toward the place of celebration. The morning celebration usually consists of the historic observance of the day in the form of addresses by both native and official orators. The afternoon is devoted to boat races and athletic contests of various kinds.

All American national holidays are also observed in appropriate

manner.

FINANCES.

The finances of American Samoa are divided into various funds as follows:

Customs revenues are used for the upkeep and building of roads, schools, and general island government expenses.

The judicial fund, fines, etc., supports the judicial department of

the island government.

The native tax fund is chiefly for the pay of native officials, such as district governors, county chiefs, village policemen, etc.

The Bank of American Samoa is conducted under the supervision of Navy officials. The governor is president and a Navy disbursing officer cashier. It has a surplus of almost \$10,000.

All the finances are in excellent condition. They are audited each month by a board consisting of three Navy officials appointed by the governor and three natives recommended to the governor by the district governors, one from each of the three districts.

There is no public debt.

BIBLIOGRAPHY.

A list of books and papers concerning Samoa is given in Appendix H. The Library of Congress published a bibliography of Samoa and Guam in 1901.

GOVERNORS.

The names of commandants and governors of American Samoa, with their terms of office, are as follows:

	From-	То
Commander B. F. Tilley, U. S. Navy, commandant. Capt. U. Sebree, U. S. Navy, commandant. Lieut. Commander M. Minett, U. S. Navy, acting commandant. Commander E. B. Underwood, U. S. Navy, commandant. Commander C. B. T. Moore, U. S. Navy, governor. Capt. John F. Parker, U. S. Navy, governor. Commander W. M. Crose, U. S. Navy, governor. Commander W. M. Crose, U. S. Navy, governor. Lieut. N. W. Post, U. S. Navy, acting governor. Commander C. D. Stearns, U. S. Navy, governor. Lieut. N. W. Post, U. S. Navy, acting governor. Lieut. C. A. Woodruff, U. S. Navy, acting governor. Commander John M. Poyer, U. S. Navy, governor. Commander Warren J. Terhune, U. S. Navy, governor. Commander Warren J. Terhune, U. S. Navy, governor. Edwin T. Pollock.	Nov. 27, 1901 Dec. 16, 1902 May 5, 1903 Jan. 30, 1905 May 21, 1908 Nov. 10, 1910 Mar. 14, 1913 Oct. 2, 1914 Mar. 1, 1915 Junc 10, 1919 Nov. 11, 1920	Oct. 2, 1914 Dec. 6, 1914 Mar. 1, 1915 June 10, 1919 Nov. 3, 1920 Dec. — 1921

APPENDIX A.

A LIST OF CUSTOMS DUTIES.

GENERAL DUTIES.

On all goods, not specified under the head "Specific duties" or "Free list" an ad valorem duty of 15 per cent.

SPECIFIC DUTIES.

Tobacco, snuff, etc.,per pound C'garsper thousand Cigarettesdo	3.00
Ginger ale, ginger beer, lemonade, soda water, and all mineral water,	
etc., containing no alcohol, in bottles containing three-quarter	
pintper dozen_	0.12
1½ pintsdo	0.20
More than 1½ pintsper gallon_	0.10
Jewelry, precious stones, or pearls, set or strung, ad valorem	60%
Diamonds or precious stones, cut, but not set, ad volorem	10%
Im tations not exceeding an inch in dimensions, or engraved or mounted,	
ad valorem	20%
Pearls in natural state, not strung or set, ad valorem	10%
Firearms, ammunition, etc., governed as per "Arms Ordnance."	
Opium and preparations, etc., containing opium, strictly prohibited.	
Loaded shells for shotguns, ad valorem	60%

FREE LIST.

Fresh beef, mutton, poultry, and game; poultry feed; fresh fish; fresh vegetables; fresh fruits; ice; live animals and birds; seeds, plants, bulbs, and cuttings; wearing apparel; articles of personal adornment; toilet articles, etc., of persons arriving, for their own use and not for sale; printed books, magazines, and newspapers; stationery and books for educational purposes.

The importation and sale of the following articles is allowed by permission of the commandant: Patent medicines and drugs, stallions, firearms, and

ammunition.

Appendix B.

SAMOAN TREES.

[Prepared from a report by Col. A. B. Steinberger, a book "Useful Plants of Guam," by W. E. Safford, notes by E. W. Gurr and by E. J. Mooklar. This is not a complete list of Samoan trees.]

Alaa	Trees grow to a fair size, with straight stem and but
***************************************	little follage; bark thin, wood of light cherry color
	straight grain, very heavy, and remarkably fine
	texture: there is but little sap and the wood is
	durable. This tree does not grow close enough for
	practical uses as an article of export.
	(35 1 - Tintian) A fine leave tree wood heavy and

Anume_____ (Maba eliptica). A fine, large tree, wood heavy and difficult to work, very durable, and generally used by the natives for posts, etc.

Aōu	Banyan tree (Ficus prolixa). This tree is not very abundant in Samoa. It is the monarch of the for-
	ests, lifting its great leafy dome above the surrounding tohage. The natives believe that this tree is the
	abode of spirits.
Atone	Nutmeg tree (Myristica). Generally a straight tree,
	resembling hickory; wood light color, but not so
	tough or elastic as hickory; there are many varie-
	ties of this tree which are indigenous. The nut is
	large, well-formed, and has a good covering of mace,
	but it is only slightly fragrant. By grafting the
	real nutmeg a better or higher fragrance can be obtained.
Au'auli	Samoan teak; Samoan ebony (Dyospyros Samoensis).
	A large timber tree but not abundant, except a
	smaller variety; wood white, fine in texture, and
	very tough, is a vegetable caustic, not less positive
•	in its act on than n trate of silver; sometimes used
	for large canoes, but the wood is too hard for native
	manufacturing.
Esi	Papaya, papaw, mummy apple (Carica Papaya). The
	tree, suggesting a palm in its habits of growth, bears
	a crown of large, long-stalked leaves on a slender,
	straight, fleshy trunk. All parts of the plant abound
	in a milky juice, or latex, which has remarkable
	pepsinlike digestive properties. The fruit is melon
	shaped and of excellent flavor. The trees spring
	up spontaneously in open places and clearings in
	the forest, from seeds dropped by birds. The wood is soft, spongy, and useless. The trunk of the tree
	can be cut through with one stroke of a bush knife.
Falaga	(Barringtonia Samoensis). A small tree, wood light-
	colored; very straight grain, exceedingly tough,
	close in texture, desirable for tool handles, etc.
Fau	(Pariti tiliacceum). A common seacoast tree, with
	spreading branches and yellow flowers with dark
	centers; moderate size, wood soft and very light in
	weight, has but little sap, the heart chocolate-col-
	ored and in an old tree very close-grained and hard;
	used for canoes and houses; the fiber from the inner
	bark is used for making fishing nets and cordage, and also a fine white shaggy mat resembling a
	sheepskin rug; the fiber is superior in tenacity to
	any other known fiber. The tree is very abundant
	and accessible.
Faui	A small tree, quite abundant, wood light and tough,
	good for housebuilding and all general uses; works
	easy and is generally economical.
Fena	(Eugenia neurocalyx). A fine shade tree, but the
	wood is soft, coarse-grained, of dingy red color, and
	subject to quick decay; the fruit is much used for
	garlands—"ula "—but it is not edible.
Fetau	(Calophyllum Inophyllum). One of the most valuable timber trees of Polynesia, but only attains a large
	size in Samoa and Fiji; grows tall with a heavy
	trunk; the wood cuts nearly white but grows red as
	exposed; it is hard, curly, and heavy; is suitable for
	cabinetwork, having beautiful shades of red. It is
	not so fine in texture as other heavier woods on the
	islands. Natives build large canoes of this wood
	and also use it for house posts. It is also valued
	for an aromatic gum, which exudes from incisions
	made in its trunk and limbs, and for a medicinal cil
	obtained from its roots. The resin yielded by the
	trunk is agreeably aromatic, and is one of the Ta-
	camahac gums of commerce.

Filofiloa	-(Coffeacea). A small tree; the wood is white,
	straight, and very tough; nearly resembles hickory;
	would be valuable for all the purposes for which
13. 4	hickory and ash are used
Futu	- (Burringtonia speciosa). A moderate-sized tree, cuts
	fight but grows brown by exposure. The wood is
	curly, brittle, and soft, is quite light, and is used for canoes: it is not a valuable wood for general use,
	though much esteemed by the natives on account of
	the ease with which they work it. The fruit is used
	for stupefying fish, it being grated for this purpose.
~ ·	The leaves are large and lustrous like the magnolia.
Gatae	- (Erythrina Indica). A tree found on the coast; dense,
	large scarlet blossoms known as "aloalo." Quick
	growing; often used for hedges or fence posts; is
	also used as a shade tree on cacao plantations. The wood is light, and is sometimes used for the out-
	riggers of canoes. It is a large tree, easily worked,
	straight grained, and of light cream color; is sappy
	but dries well and is quite durable.
Ifi	(Inocarpus edulis). Samoan chestnut. When the tree
	is young it is usually cylindrical. It later becomes
	fluted, as though surrounded by adherent columns,
	which later develop into radiating buttresses like
	great planks. In Samoa it is one of the most striking features of the forest. It bears an edible kid-
	ney-shaped fruit or nut, which is eaten cooked when
	not quite ripe and tastes much like a chestnut. The
	wood is of light color, straight, of fine texture and
	very tough. It is used for burning lime in open
	kilns, the wood having the remarkable quality of
	burning readily while green.
Ifilele	(Intsia Bijuga). A valuable timber tree. The wood
	is very hard and durable, much used for house posts; it resists the attack of white ants. In Guam it is
	much used for furniture. When old, a nail can not
	be driven into the wood.
Lagaali	(Aglaia edulis). A tree about 20 feet in height, found
	throughout the group, bearing an odoriferous flower
	used by the natives for scenting oil. The bark of
	this tree is used by the natives for dysentery, and
	probably contains tannic acid; wood light pink color, very handsome, and susceptible of a high polish.
Lama	Candlenut (Aleurites Moluccana). A handsome tree
Lama	with spreading branches, flowers small and white. In
	former times the nuts, strung on coconut leaflet ribs,
	were used by natives as candles to light the houses.
	The nuts yield an oil. The smoke from the nuts de-
	posits a heavy carbon, much used as a paint, par-
	ticularly in tattooing. The tree is of moderate size and somewhat resembles the cottonwood of the
	Western States; it is worthless as timber.
Canlili'i an Tanuta'i	(Cupania Rhoifolia). A small tree, wood of light
Laumi or Laputo 1	cherry color, curly, of close texture and exceedingly
	hard; heavy, and works too hard to be of any prac-
	t cal use except for some fancy work.
Ma'ali or Mafoa	A large tree, very abundant; the wood of light slate
	color, coarse grained but straight, dry, and light;
	quite hard; the gum is odoriferous and much used
Maga	by natives. Mango (Mangifera indica). One of the handsomest
Mitg0	trees of Samoa. It may grow to a great size, as may
	he seen at the head of Pago Pago Bay. The
	branches and leaves are very dense, the tree sym-
	metrical, the leaves glossy and of a vivid green.
	The fruit is of good quality, but not so good as the
	Mango of the Philippines. The trees do not all bear

	fruit, and those that do bear will fail to produce crops during some years, probably due to the moist climate.
Mamala	(Dysoxylon Alliaceum). A fine, large tree with meager follage; wood coarse, straight-grained, light coffee color; works easy, but in working affects the
Mamalava	throats of the workmen. A large, fine, straight tree, wood the color of white oak, not very close textured. The natives will not use this wood for building purposes, as they say
Maota	that it rots in two or three years. - (Dysoxylon 8p.). A short, heavy tree with dense foliage; wood is light colored, straight grained, not durable. It is the favorite tree of the wild pigeon,
Milo	which eats the fruit. (Thespesia Populnea) Polynesian Rosewood. A large, straight tree with fine bark, the trees seldom grow-
	ing close together; there is but little sap; not heavy; about four-fifths of the tree consists of the heart; wood a beautiful red color; fine fexture; has been used in building schooners; it is sometimes planted about villages as a shade tree.
Mosoo'i	(Cananya Odorata). A tree bearing a profusion of greenish-yellow fragrant flowers, with long fringe-like petals, from which the perfume "Ylang-Ylang" is made. The bark of the tree is smooth and ashy; trunk normally straight. Wood is soft and white, not very durable, but the natives sometimes make small canoes of it. The tree is highly esteemed by
Niu	the natives, the flowers being strung into wreaths and garlands. Coconut (Cocos Nucifera). This tree needs no de-
	scr.ption here; its wide range and usefulness can not be exaggerated.
	(Morinda Citrifolia). A small tree with large, glossy leaves. The seeds contain an air chamber, are buoyant, and have been transported great distances by ocean currents; a red and a yellow color may be obtained from the wood, which is used for dyes in India and in Guam. The wood is hard, straight grained, and guite coarse in texture.
Nonufiafia	(Eugenia Malaccensis) Malay Apple. A tree of medium size bearing a profusion of white, purple, or red flowers, followed by an abundance of fruit having a fragrant applelike odor and a delicate flavor. The tree is much estecmed by the natives for its beauty as well as for its fruit.
O'a	(Bischoffia Javanica). A moderate-sized tree; the juice under the bark is used by the natives for painting or coloring native cloth; wood of a peculiar pink color, valuable for cabinetwork.
Pulu	Rubber (<i>Hevea Braziliensis</i>). This species of rubber has been planted on a small scale. It is very slow of growth and does not develop into a large tree, as found in other countries.
`	Castilloa Elastica. Grows rapidly and the latex produces a first-class commercial rubber. Ceara. Has been planted to a small extent; the trees thrive well, but it seems doubtful if they will pro-
	duce good rublar. Very little rubber has been planted in American Samoa; none at all by the natives. There are some
Seasea	extensive rubber plantations in German Samoa. (Eugenia Speciosa). Tree about 50 feet in height; wood hard and tough, light yellow color, of fine

Seitanu	A small tree, wood of cherry color, close-grained, heavy, but works easily; not especially valuable.
Talafulu	A small tree, very hardy, and quite plentiful; a valuable wood, hard, with the color of American apple, but much finer in grain; susceptible of high polish.
	Polynesian Almond; Umbrella Tree (Terminalia Catuppa). A moderate-sized tree, though it often attains great size; its branches grow in horizontal sworls; the wood is of light maple color, curly, and of fine texture; not a valuable timber tree, as the heart is usually detective.
Tamauu	(<i>Maba</i> sp.). A good-sized tree but grows singly; a hard, light, red-colored wood, resembling cedar when dry, straight grain, but the heart is subject to decay.
Tauanave	(Cordia Subcordata). A tree sparsely interspersed throughout the group; wood of a rich walnut color and very durable.
Tavai	(<i>Rhus tartensis</i>). A tree of moderate size; grows in a moderate quantity on all the islands; the wood is hard, fine, straight, and resembles live oak, but perhaps is more tenacious.
Toa	Ironwood (Casuarina equisetifolia). A leafless tree with drooping branches somewhat like a pine in general appearance; moderate sized; wood dingy red color; straight grain, coarse, and heavy; not unl.ke oak when fresh cut, but grows hard when exposed; is a very durable wood; was formerly used for making spears and war clubs.
Toi	(Alphitonia excelsa). A large tree sparsely interspersed throughout the group; the tree is tall and straight; wood of a delicate peach color, exceedingly tough, and of fine texture, susceptible of a high polish; the heart of the tree resists decay.
Ulu	Breadfruit tree (Artocarpus communis). A tree common to all South Sea Islands. It flourishes here in its greatest variety and abundance; the trees surround every house, and every village has one or more groves in the interior. The fruit is the staple food of Samoa. The tree is not tall, but is uniform and beautiful in shape, with wide-spreading branches and broad pinnated leaves, the entire foliage charming in its regularity. The fruit is globular and about 6 inches in diameter; it is eaten before it becomes ripe while the pulp is still white and mealy. It is eaten cooked, either baked or boiled. The heart of the tree is a dusky red color, strong, straight, and easily worked. From it the frames of native houses are made, and excepting for boat-building purposes it furnishes the lumber of the natives.
Vata	A fair-sized timber tree; wood of maple color, light weight, straight grained, cuts easily, but is quite
	tough and durable. (Spondias dulcis). An important tree of large size; it produces a fruit somewhat like the pear, of good flavor. The wood is soft and of little value.
Vivao	Wild vi, to distinguish it from the vi, a valuable fruit tree. A large tree, heavy, very sappy, and not valu- able

APPENDIX C.

Statement of copra sold, 1901 to 1920, inclusive.

Year.	Pounds.	Price per ton (2,240 pounds).	Amount.
1901	390, 778 852, 237 1, 132, 878 1, 240, 871 2, 567, 342 2, 018, 860 2, 059, 317 2, 349, 417 2, 345, 437 2, 743, 691 1, 773, 064 2, 5551, 027 1, 628, 187 1, 938, 231 2, 678, 652 2, 636, 902 2, 208, 803	\$43. 46 62. 42 55. 44 57. 69 57. 50 54. 00 76. 25 61. 20 63. 25 80. 00 82. 62 93. 75 100. 25 108. 00 108. 66 108. 68 112. 58 115. 68	\$7, 582, 6 23, 751, 9 28, 042, 0 31, 952, 4 65, 797, 7 48, 690, 5 63, 434, 5 66, 228, 5 97, 988, 9 124, 452, 5 122, 995, 9 62, 074, 6 94, 021, 5 123, 791, 9 187, 481, 1 82, 268, 9 154, 616, 2

Notes.—(a) Years 1901 and 1902 show tax copra only. Year 1903 show tax copra and most of surplus

copra.

(b) The price per ton in first four years is the average price.

(c) In 1915, 152,596 pounds of copra damaged in the Manua hurricanes was sold at private sale for \$4,138.82.

(d) In 1916, 7,720 pounds of copra, second grade, damaged by weather sold at \$80 per ton, \$275.71.

(e) In 1918, 33,546 pounds of copra, second grade, sold for \$889.45.

Statement of copra weighed into copra sheds.

	Pounds.		Pounds.
		1912	
1904	1, 499, 108	1913	1, 886, 127
1905	2, 802, 406	1914	2, 889, 910
1906	2, 221, 001	1915	1, 733, 122
1907	2, 228, 416	1916	2,006,222
1908	2, 583, 363	1917	2, 765, 745
1909		1918	
1910	2, 942, 028	1919	1, 735, 993
1911	3, 611, 361	1920	2, 330, 190

APPENDIX D.

Statement of surplus copra, 1907 to 1920, inclusive.

Manna	1907	\$1, 473. 79	
	1908 1909 1910 1911 1912 1913 1914 1915	1,56,18 903,87 1,253,30 1,526,81 1,471,36 1,591,68 242,42	\$644.6 727.2 494.7 1,769.6 1,230.9 650.1 1,123.2
	1917 1918 1919 1920	56.73	328. 8 53. 7 34. 5

Statement of surplus copra, 1907 to 1920, inclusive—Continued.

Eastern	1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918	\$2, 256. 50 1, 049. 34 2, 489. 14 2, 949. 47 2, 739. 74 2, 907. 21 2, 540. 10 1, 183. 00 2, 426. 02 2, 095. 36 3, 195. 13	\$775, 93 2, 492, 39 1, 186, 98 1, 339, 06 3, 666, 40 2, 827, 66 1, 039, 81 2, 786, 21 2, 005, 85 2, 116, 30 5, 066, 11 6, 035, 98
1908 1909 1010 1911 1912 1913	1920		1, 696. 59 3, 032. 62
1915 1916 1917 1918 1919 1920	1908 1909 1010 1911 1912 1913 1914 1915 1916 1917	27, 962. 47 1, 755. 83 839. 94 1, 000. 49 2, 743. 49 2, 826. 58 2, 910. 40 3, 155. 18 2, 854. 40 1, 447. 05 2, 604. 61 2, 305. 90 3, 917. 37 2, 404. 38	36, 067. 89 681. 21 85. 77 1, 032. 30 2, 125. 43 3, 009. 19 4, 111. 02 2, 017. 05 5, 081. 75 5, 047. 55 3, 487. 59 5, 494. 91 8, 565. 45 3, 309. 09 3, 970. 73

APPENDIX E.

CENSUS.

Returns of seventh census, January, 1920.

EASTERN DISTRICT OF TUTUILA.

County.	Village.	Male.	Female.	Total.
Ituau	Nuuuli Fagasa Matuu and Faganeanea	140 113 34	148 103 35	288 216 69
		287	286	573
Mauputasi	Utulei Fagaalu Lepua Leloaloa Atuu Anua Fagatogo Pago Fago Satala Aua.	106 27 3 46 33 1 277 277 7 106	99 28 9 29 22 1 238 4 291 5 96	205 55 12 75 55 2 515 568 12 202
Sua	Fagaitua	66 70 14 54 61 46	70 71 16 55 75 35	136 141 30 109 136 81

Returns of seventh census, January, 1920—Continued. EASTERN DISTRICT OF TUTUILA—Continued.

Conuty.	Village.	Male.	Fe m ale.	Total.
Vaifauua.	Vatia. Aoa. Alao. Onenoa. Tula	73 58 53 25 43	72 43 70 25 42	145 101 123 50 85
		252	252	504
Saole	Aunuu. Amouli. Utumea. Alofau	101 51 5 27	97 44 9 32	198 95 14 59
		184	182	366
Total		1,917	1,860	3,777
	WESTERN DISTRICT OF TUTUILA	•		<u></u>
Lealataua	Leone. Failolo. Fua. Amaluie Seetaga. Afao. Atauloma Amanave. Poloa. Fagalii Asili Fagamolo.	259 28 27 26 24 14 12 72 42 23 41 29	213 30 29 19 27 19 8 71 53 31 24	472 58 56 45 51 33 20 143 95 54 65
		597	537	1,134
Leasina	Aoloau Aasu Aitulagi	55 34 60	58 27 56	113 61 116
		149	141	390
Tualauta	Pavaiai Mapusaga Tafuga Faleniu Iliili. Vaitogi.	52 57 18 48 76 86	77 40 10 38 58 91	129 97 28 86 134 177
		337	314	661
Tualatai	Vailoa Taputimu. Tuaulu Ituau. Futiga	27 53 31 38 17	26 44 34 42 21	53 97 65 80 38
		166	167	233
Total		1,249	1,159	2,408
	DISTRICT OF MANUA.			
Tau	Luma. Siufaga.	143 137	155 116	298 253
70.1		280	271	551
Faleasao	Faleasao	141	128	269
FitiutaLuanuu	Leuaoalii	182	153	335
- Capitali.	Ofu. Olosega. Sili.	174 127 22	189 181 25	363 308 47
		323	395	718
Total		926	947	1,873

APPENDIX.

Returns of seventh census, January, 1920—Continued.

RECAPITULATION.

District.	Male.	Female.	Total.
Eastern Western Manua	1, 917 1, 249 926	1,860 1,159 947	3,777 2,408 1,873
Total	4,092	3,966	8,058

Census returns from 1900 to 1920.

•	Year.	Eastern district.	Western district.	Manua.	Total.
1908 1912 1916		2,441 3,018 3,186 3,458	1,702 1,618 1,752 1,907 2,268 2,254 2,468	1,756 1,603 1,695 1,855 1,797 1,664 1,873	5, 679 5, 563 5, 888 6, 780 7, 251 7, 376 8, 058

Statement of births, deaths, and marriages, fiscal years, July 1 to June 30.

Year.	Births.	Deaths.	Marriages
901	285	150	42
902	196	188	46
903	144	187	89
304		120	52
905	85	127	71
906	195	163	96
907	225	161	107
908	205	178	56
909	114	164	68
910	95	178	76
911	262	180	56
012		176	47
913	242	132	" 95
)14	196	122	93
015		85	109
016	211	122	115
917	193	100	79
018	226	197	103
019		91	139
92)	153	67	94
Total	3,706	2,878	1,633

Note.—Prior to May 12, 1921, records of births and deaths have been filed monthly by the village chiefs. Their records have not been accurate, but are only approximately correct. A new law enacted May 12, 1921, requires village chiefs to report births and deaths on the day following for registration and also makes a burial certificate necessary before any burial can take place. The change is expected to insure accurate returns in the future.

APPENDIX F.

LIST OF GENERAL STORES AND CLASSIFICATION.

PAGO PAGO.

A. Forsythe & Co	1 first 1 first 1 first 1 first 2 second 1 second	class. class. class. class. class.
LEONE.		
A. Pritchard G. H. C. Reid John A. Pritchard	1 third	class.
MANUA. South Seas Pacific Co	1 third	class.

RATINGS OF STORES.

First class: Monthly sales over \$2,000 per month. Second class: Monthly sales over \$1,000 per month and under \$2,000. Third class: Monthly sales over \$500 per month and under \$1,000.

APPENDIX G.

List of in	portat	ions int	o Amer	ican Sa	noa, 1 92	0.	
Countries.	Bread- stuffs.	Cement	Cotton goods.		Meats,	Canned vegeta- bles.	Canned fruits.
United States. British colonies. All other.	\$3, 850 15, 958	\$90		4 2,15	\$7,989 1 \$7,878		\$1,148 531
Total	19, 808	5 97	0 45, 51	2 26, 29	2 45, 862	1,553	1,679
Countries.		Leather	Oils.	Sugar	Furni- ture.	Lumber.	Paints.
United States			8 \$5, 91 4 46		\$1,850 5 1,100		\$699 298
Total		2,64	6, 37	9 9, 50	9 2,956	1,428	997
Countries.		Soap.	Liquors.	Tobacco.	Hard- ware.	All other goods not classified.	Total.
United States. British colonies. All other		\$1,714 5,486	\$2 8	\$5, 854 3, 492	\$11,634 2,716	\$27,716 10,582 487	\$126, 185 108, 190 918
Total		7, 200	28	9, 346	14,350	38,785	235, 293

APPENDIX H.

TEMPERATURE DATA, 1900 TO 1920.

Average annual temperature.

Averag	je annuc	il temperature.				
	۰					
1900	90 <i>e</i>	1011	00 =			
1901		1911				
1902		1912				
1903		1913				
1904		1914				
1905		1915				
		1916				
1906		1917				
1907		1918				
1908		1919				
1909 1910		1920	. 80, 8			
1910	80.3					
Arerage monthly	i temnes	rature for twenty years.				
in trage monthly		with the for the hiry years.				
	•		0			
January	82.4	l July	. 80.0			
February	81.9	August	79.6			
March	82. 2	September	79.8			
April		October				
May		November				
June	_ 79. 7	December				
Average mean temperature						
		e, January, 1914				
Minimum average monthly temp	perature	, July, 1902	. 75. 4			
	APPEN	DIX I.				
RAINFALL DA	ATA, 1900	TO 1921, INCLUSIVE.				
RAINFALL DA						
RAINFALL DA	Yearly	rainf a ll.	Inches			
	Yearly Inches.	rainfall.	inches.			
1900	Yearly Inches. 167. 2	rainfall. 1911	153.7			
19001901	Yearly Inches. 167. 2 177. 3	rainfall. 1911 1912	153. 7 195. 4			
1900 1901 1902	Yearly Inches. 167. 2 177. 3 149. 3	rainfall. 1911 1912 1913	153.7 195.4 275.2			
1900 1901 1902 1903	Yearly Inches. 167. 2 177. 3 149. 3 199. 3	rainfall. 1911 1912 1918 1914	153. 7 195. 4 275. 2 250. 6			
1900 1901 1902 1903 1904	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1	rainfall. 1911 1912 1918 1914 1915	153. 7 195. 4 275. 2 250. 6 156. 3			
1900 1901 1902 1903 1904 1905	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1 130. 2	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2 220, 3	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0			
1900	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1 130. 2 148. 2 220. 3 284. 4	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9			
1900	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1 130. 2 148. 2 220. 3 284. 4 145. 1	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9			
1900	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1 130. 2 148. 2 220. 3 284. 4 145. 1	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2 220, 3 284, 4 145, 1 198, 5	1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2 220, 3 284, 4 145, 1 198, 5	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9 257. 0			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2 220, 3 284, 4 145, 1 198, 5	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9			
1900	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1 130. 2 220. 3 284. 4 145. 1 198. 5 uge mon Inches.	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9 257. 0			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2 220, 3 284, 4 145, 1 198, 5 uge mon Inches, 21, 24	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9 257. 0			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2 220, 3 284, 4 145, 1 198, 5 uge mon Inches, 21, 24 24, 11	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9 257. 0			
1900	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1 130. 2 148. 2 220. 3 284. 4 145. 1 198. 5 uge mon Inches. 21. 24 24. 11 19. 11	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9 257. 0			
1900	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1 130. 2 148. 2 220. 3 284. 4 145. 1 198. 5 uge mon Inches. 21. 24 24. 11 19. 11 17. 79	rainfall. 1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9 257. 0			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2 220, 3 284, 4 145, 1 198, 5 ye mon Inches, 21, 24 24, 11 19, 11 17, 79 14, 50	1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9 257. 0 inches. 10. 03 7. 87 13. 04 15. 92 19, 22			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2 220, 3 284, 4 145, 1 198, 5 ye mon Inches, 21, 24 24, 11 19, 11 17, 79 14, 50	1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 257. 0 257. 0 inches. 10. 03 7. 87 13. 04 15. 92 19, 22 19, 15			
1900	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1 130. 2 148. 2 220. 3 284. 4 145. 1 198. 5 uge mon Inches. 21. 24 24. 11 19. 11 17. 79 14. 50 14. 22	1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9 257. 0 inches. 10. 03 7. 87 13. 04 15. 19. 22 19. 15 inches.			
1900	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1 130. 2 148. 2 220. 3 284. 4 145. 1 198. 5 yee mon Inches. 21. 24. 11 19. 11 17. 79 14. 50 14. 22	1911	153. 7 195. 4 275. 2 250. 6 156. 3 206. 1 249. 9 207. 0 174. 9 257. 0 inches. 10. 03 7. 87 13. 04 15. 92 19. 15 inches. 96. 20			
1900	Yearly Inches. 167. 2 177. 3 149. 3 199. 3 176. 1 130. 2 148. 2 220. 3 284. 4 145. 1 198. 5 49e mon Inches. 21. 24 24. 11 19. 11 17. 79 14. 50 14. 22	1911	153. 7 195. 4 275. 2 250. 6 3 206. 1 249. 9 257. 0 174. 9 257. 0 inches. 10. 03 7. 87 13. 04 15. 92 19. 12 19. 12 19. 12 19. 15 10. 68. 3			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2 220, 3 284, 4 145, 1 198, 5 uge mon Inches, 21, 24 24, 11 19, 11 17, 79 14, 50 14, 22	1911	153. 7 195. 4 275. 2 250. 6 3 206. 1 249. 9 207. 0 174. 9 257. 0 inches. 7. 87 13. 04 15. 92 19, 22 19, 15 nehes. 96. 20 16. 35 60. 50			
1900	Yearly Inches, 167, 2 177, 3 149, 3 199, 3 176, 1 130, 2 148, 2 220, 3 284, 4 145, 1 198, 5 uge mon Inches, 21, 24 24, 11 19, 11 17, 79 14, 50 14, 22	1911	153. 7 195. 4 275. 2 250. 6 3 206. 1 249. 9 257. 0 174. 9 257. 0 inches. 10. 03 7. 87 13. 04 15. 92 19. 12 19. 12 19. 12 19. 15 10. 68. 3			

APPENDIX J.

A LIST OF BOOKS ON SAMOA.

	"Samoa Uma." Forest & Stream Pub. Co., New York City, 1902.
Churchill, Wm	"Polynesian Wanderings." Carnegie Institution of Washington, D. C., 1911.
Churchward, W. B	"My Consulate in Samoa." Richard Bentley & Son, London, 1887.
Jordan, David Starr	Fishes of Samoa." Bureau of Fisheries (United States Government publication), 1906.
etv	"Kalena (calendar) Samoa." Issued annually; L. M. S. Press, Malua, Upolu, Western Samoa
Macmillan & Co. (Lon	ti Statesments Ween Book ? Torond annually
	"Statesman's Year Book." Issued annually. "Grammar and Dictionary of the Samoan Language." London M.ssionary Society Press, Malua, Upolu, Western Samoa, 1912.
	"Useful Plants of Guam" (with many references to Samoan plants). Smithsonian Institution, Wash-
Stair, John B	ington, D. C., 1905. "Old Samoa." The Religious Tract Society, London, 1897.
Stevenson, Robert Louis.	"A Footnote to History: Eight Years of Trouble in Samoa." Chas, Scr.bner & Son, 1892.
	"Letters of." Chas. Scribner & Son, 1899.
Turner, George	"Vailima Letters." Stone & Kimball, Chicago, 1895. "Nineteen Years in Polynesia." John Snow, London, 1861.
•	"Samoa a Hundred Years Ago." Macmillan & Co.,
United States	London, 1884. Forty-third Congress, first session, Senate Executive Document No. 45. Message from President; report
	Document No. 45. Message from President; report by Secretary of State upon Samoa contains report of Col. A. B. Steinberger, 1874. Forty-sixth Congress, first session, Senate Executive Document No. 2. President's message in relation to affairs in Samoa contains report of Mr. Goward on Samoa. 1879. Fiftieth Congress, first session, House Executive Document No. 238, American Rights in Samoa. Contains trenty between the Un'ted States and Samoa of 1878, and report of George H. Bates, special agent to Samoa. Fifty-first Congress, first session, Senate Miscellaneous Document No. 81. General act, signed at Berlin June 14, 1889, regarding neutrality of Samoa and Government by United States, Germany, and Great Britain. Many other papers on Samoan affairs. Foreign Relations of, 1899. Report of Mr. Bartlett Tripp. Tripartite Convention partitioning Samoa.
U. S. Government Printing Office	Memoranda furnished by Navy Department during
	second session of the Fifty-seventh Congress, 1902, in re Tutuila.
	Naval Governor, General Orders relative thereto, and other documents in force Jan. 1, 1903.
	Treaties, Conventions, and State Papers, relating to the acquisition of Samoan Islands, 1903.
Wilkes, Charles	Narrative of United States Exploring Expedition, 1838–1842. Philadelphia, Lee & Blanchard, 5 volumes, 1845.

